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IMAGING OF HUMAN HEART DATA

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14. ABSTRACT
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ABSTRACT

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ADMINISTRATIVE INFORMATION

The author of this report was employed at NUWC Division Newport during the summer of 1997 as an intern in the Summer Student Program.

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INTRODUCTION

Diagnosing heart disease, especially arterial blockage, has long been a difficult and potentially dangerous medical procedure. The most common methods used today are typically highly invasive and occasionally life-threatening. Much of the noninvasive diagnosis is done with the familiar stethoscope, which requires a sharp ear and is difficult to master.

This memorandum describes an alternative, noninvasive procedure to identify arterial blockages. This new procedure uses the principles of sonar to "listen" to the vibrations in a human chest. The listening device is a volumetric array composed of 15 sensors. Nine of these sensors are equally spaced along a primary axis. Six other sensors are spaced along a secondary axis perpendicular to the primary axis, with three on each side of the primary axis. The two sets of three sensors create two "wings" that are connected to the primary row of nine sensors with hinges to allow conformity to the chest surface. The sensors in the wings are equally spaced, with a larger space for the hinge.

The data recorded by this array are processed and imaged using both conventional and reduced-variance, distortionless-response (RVDR) focused beamformers. Initial tests were done in ideal laboratory situations using polyurethane blocks (frequently referred to as DAWGs) that contained simulated artery blockages. Later tests added "ribs" to these blocks to test the effects of reflection on the images. The images of the data produced from these tests indicated that the blockages could be identified consistently.

This memorandum discusses the processing of the data from the first round of human tests. The purpose of the imaging of this preliminary data was to explore patterns in the images; to identify the effects of ribs, tissue, and normal body sounds, and to provide answers as to the advantages and disadvantages of several different combinations of variables used in the processing. These variables included the length and number of fast Fourier transforms (FFTs) to use in creating the cross-spectral density (CSD) matrix and the number of channels processed when creating the images.

PROCEDURE

Raw data were collected from 10 volunteer subjects. Each subject underwent between one and four tests, each lasting approximately 60 seconds. Each test produced 15 channels of displacement data (see figures 1 and 2) and an EKG.

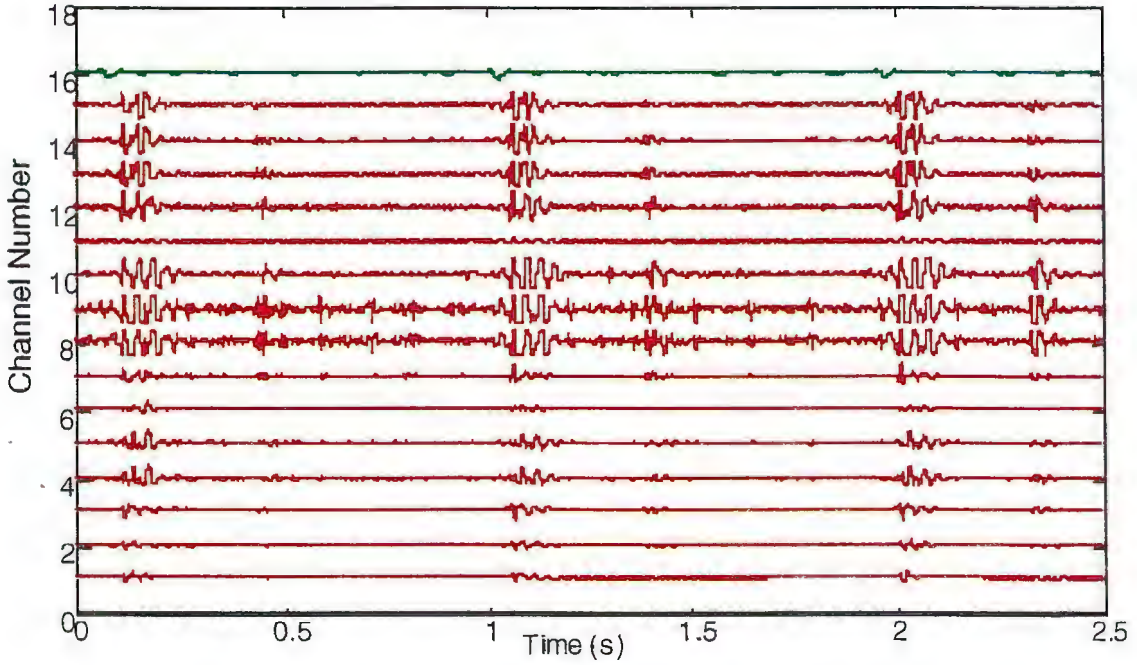

Figure 1. Data Sample with Very Little Noise

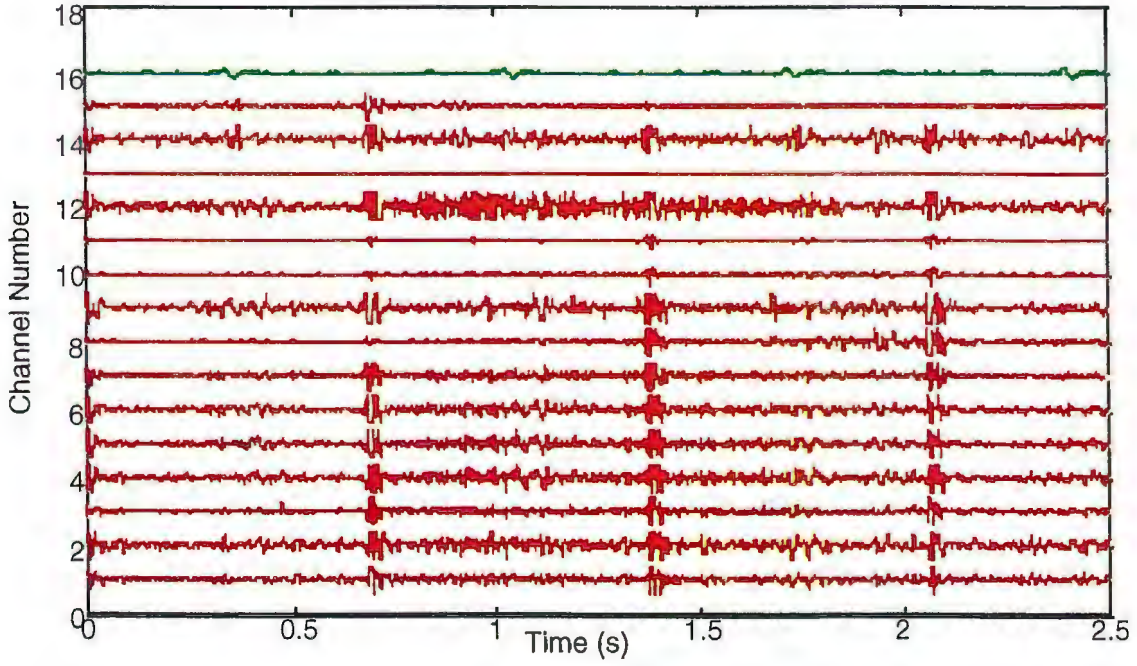

Figure 2. Data Sample with Significant Noise

Using the Matlab* program, the raw data were edited. Edited data sets required 16,384 data points or more, all taken from the diastolic phase of the heartbeat—the interval between the second heart sound (S2) and the following first heart sound (S1). The diastolic phase was identified in the data using the EKG, which enabled location of the S1 heart sound. During the middle of the diastolic phase, the largest amount of blood flows through the coronary arteries and there are no major valve sounds.

After editing, the new data sets were saved, and handwritten notes about the quality of the raw data were made. These notes, qualitative and subjective, made comments on the amount of noise in the samples and the ease of location of the S1 and S2 heart sounds.

Next, several CSD matrices were created from each edited data set. The CSD matrices differed in the combination of FFT length and the number of FFTs. Three different combinations were used: 16 FFTs with a length of 1024 points, 32 FFTs with a length of 512 points, and 64 FFTs with a length of 256 points. Qualitative observations on the computation time for each combination were made.

Finally, each CSD matrix was imaged using both conventional and RVDR focused beamformers. The matrices were imaged at 100, 200, 300, 400, and 500 Hz. In addition, each matrix was imaged using 9 channels and then using 15 channels (see appendixes A and B). This allowed evaluation of the effect of the "wings" of the array on the image. The wave speeds were as follows and remained constant for all images:

Wave Speed at 100 Hz	4 m/s
Wave Speed at 1000 Hz	12 m/s

These values were selected based on literature values of 3.75 m/s and 13 m/s, respectively. The RVDR enhancement value was set at 6.0.

After the images had been created and printed, they were grouped and studied. The images were grouped according to the health of the subject (see table 1). Four of the subjects were determined to be in "good" health—which meant that the subjects had no prior heart disease and did not have unhealthy lifestyles. Three were smokers but had no history of heart disease. Two had previously experienced arterial blockages. One subject had heart disease unrelated to arterial blockage.

* All of the data processing was performed using Matlab for the Macintosh, version 4.2 programs written by Andrew Hull, Code 2141, that were based on an original developmental code written by Norman Owsley, Code 2123.

Table 1. Image Groupings

Subject Number	Image Numbers	Health
1	901, 902 903, 904	blockage
2	905, 906 907	other heart disease
3	908, 909	smoker
4	910, 911	good
5	912, 913	smoker
6	914, 915 916	good
7	917, 918	good
8	919, 920 921	good
9	922	smoker
10	923, 924 925	blockage

Each of these groups was then subdivided. Images were grouped according to the number of channels processed and the number of FFTs used to create the CSD matrix. Each subdivision was considered separately, and observations were made. If no characteristics of interest were noted in a particular image, no observations were made about that image. Characteristics of interest included localized spots (see figures 3 and 4), the approximate location of these spots (near the surface or deeper), a large amount of high energy (red and yellow) in the image, and streaking (which can indicate aliasing).

OBSERVATIONS

During the processing, the following trends were noted. Creating a CSD matrix using 16 FFTs of length 1024 consistently took a noticeably longer computation time than 64 FFTs of length 256. Once the CSD matrices were created, however, the computation time to produce the images was comparable. Many of the data sets contained significant random noise, which often obscured the S2 heart sound, making location of the diastolic phase difficult. The sets containing significant noise were 902, 904, 905, 906, 907, 908, 922, and 925.

The images all contained a high-energy area in the upper left corner, with the exception of images 923 and 925. This area was most distinct at 100 Hz. In some images, this area was distinct but rather small, surrounded by much lower energy areas. In other images, the high-

energy area spread across the image. Several of the images were almost entirely red, often with streaks of yellow, which made the identification of high-energy spots difficult and occasionally impossible. Images 923 and 925, at 100 Hz, had a very distinct high-energy area in the upper right corner.

When the images from those subjects determined to be in "good health" were sorted by format of CSD matrix and the number of channels processed, the following trends were noted:

1. In the group of images with 9 channels processed and CSD matrices of 16 FFTs of length 1024, none of the images at 100 Hz contained localized spots that did not continue outside of the image. At 200 Hz, the localized spots were primarily very small and located close to the surface of the chest, or the bottom of the image. A few spots were noted at 300 Hz, most of which were again located close to the surface. At 400 Hz, image sets 911 and 915 appeared rather streaky. All images at 500 Hz were very streaky.

2. In the group of images with 9 channels processed and CSD matrices using 32 FFTs of length 512, there were no localized spots at 100 Hz. At 200 Hz, some spots and elongated spaces of high energy were noted, mostly near the surface. There were no spots at 300 Hz. In this group, the images at 400 Hz were extremely varied, ranging from a distinct image with a single high-energy area to images completely formed of high energy. The images again appeared quite streaky at 500 Hz, with the possible exception of 921.

3. In the group of images with 9 channels processed and CSD matrices using 64 FFTs of length 256, there were again no spots at 100 Hz. At 200 Hz, there was a distinct localized spot in image 914. At 300 Hz, there was a spot in image 918. At 400 Hz, spots were located in images 911 and 920. The images all appeared streaky at 500 Hz with the exception of 915 and 921.

4. In the group of images with 15 channels processed and CSD matrices using 16 FFTs of length 1024, images 916 and 918 showed some spots at 100 Hz, all near the surface. Several images contained spots at 200 Hz, including 914, 915, 918, 920, and 921. At 300 Hz, the following images contained spots: 911, 914, 915, 916, 917, 918, 920, and 921. At 400 Hz, almost all of the images contained spots, and images 915 and 918 appeared somewhat streaky. All of the images were streaked at 500 Hz.

5. Of the images with 15 channels processed and CSD matrices using 32 FFTs of length 512, there were a few with localized spots at 100 Hz, including 910, 911, and 917. All of these spots were located near the surface. Images at 200 Hz with some spots located near the surface include 911, 914, 915, 917, and 921. At 300 Hz, spots mostly located near the surface were found in images 914, 916, 917, 918, 920, and 921. There were localized spots in all of the images at 400 Hz. All of the images appeared streaky at 500 Hz, with the possible exception of image 921.

Filename: 906_16_1024.csd
Runname: 906_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.259
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 5.758
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.899
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB). 3.338
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.846
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 9.598
RVDR Surface Normalization (dB): 2.318
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

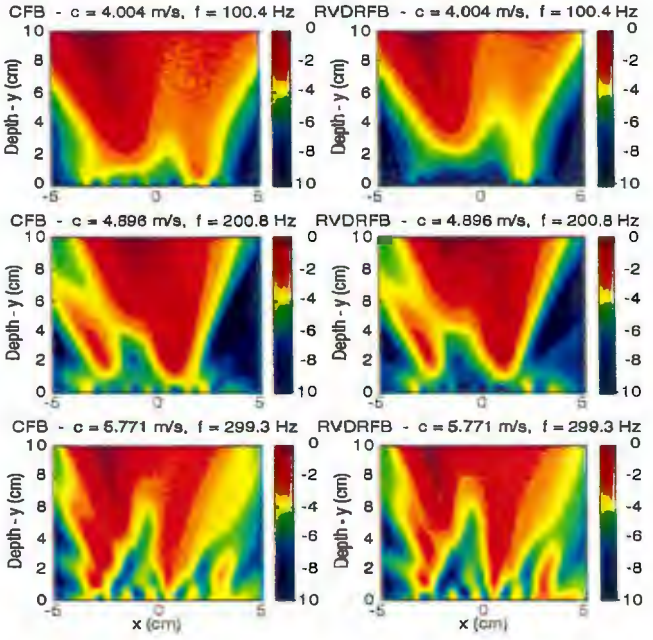

Figure 3. Example of Image with No Spots at 100 Hz (Top Images)

Filename: 906_16_1024.csd
Runname: 906_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 18
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.509
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB). 2.808
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.7
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.385
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.968
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.9906
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

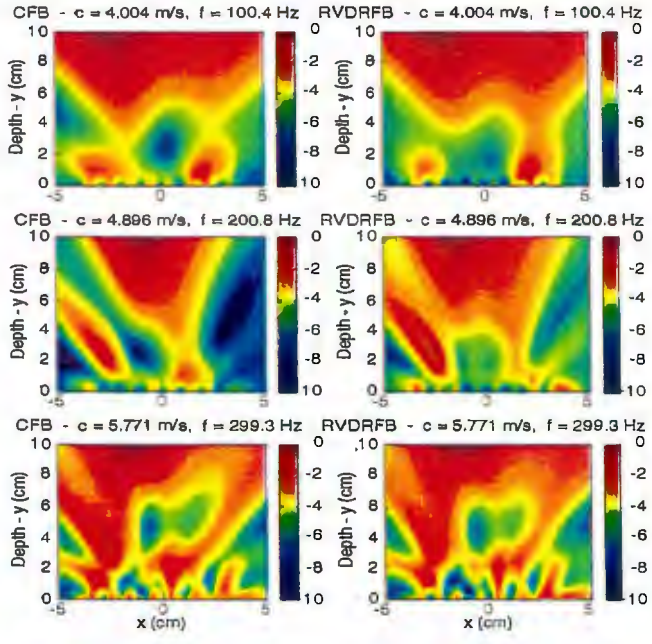

Figure 4. Example of Image with Surface Spots at 100 Hz (Top Images)

6. In the group of images with 15 channels processed and CSD matrices using 64 FFTs of length 256, images 910, 911, and 916 had some spots at 100 Hz, all near the surface. At 200 Hz, the following images showed spots at the surface: 914, 918, and 921. There were also some spots near the surface at 300 Hz in the following images: 914, 915, 916, 918, and 920. Many spots were seen at 400 Hz, in images 910, 911, 915, 918, and 921. The images at 500 Hz seemed to be less noticeably streaky, although there was still some evidence of streaking

The following observations were made on the images created from the smokers' data:

1. In the group of images with 9 channels processed and CSD matrices of 16 FFTs of length 1024, at 100 Hz, image 908 had a small surface spot. Both images 908 and 909 had small surface spots at 200 Hz. At 300 Hz, image 908 had an elongated high energy streak and small surface spots; images 909 and 922 had small surface spots and image 912 had several spots not at the surface. Image 913 appeared streaky. At 400 Hz, images 908, 909, and 922 were streaky. Image 913 contained multiple spots somewhat close to the surface, and image 912 had one spot not close to the surface. All of the images at 500 Hz were streaky, although image 908 was less streaky than the others.

2. With 9 channels processed and CSD matrices using 32 FFTs of length 512, none of the images contained spots at 100 Hz. At 200 Hz, image 909 had spots, with one not at the surface. At 300 Hz, image 913 appeared streaky, and image 922 was entirely high energy. At 400 Hz, images 908 and 913 seemed streaky, image 912 contained some surface spots, and image 909 contained several very small surface spots. Images 908 and 912 were very streaky at 500 Hz, image 913 was entirely high energy, image 909 did not appear streaky and had some spots, and image 922 had several spots not at the surface.

3. In the group of images with 9 channels processed and CSD matrices of 64 FFTs of length 256, at 100 Hz, image 908 contained a single spot near the surface. At 200 Hz, 909 contained a surface spot, and images 912, 913, and 922 were all very high energy. At 300 Hz, both images 913 and 922 were high energy, 912 contained some spots, and 908 and 909 both contained near surface spots. At 400 Hz, images 913 and 922 were entirely high energy, and images 908, 909, and 912 contained surface spots. None of the images were extremely streaky at 500 Hz. Image 913 was primarily high energy, appearing almost entirely red. Image 922 was slightly streaky and had some spots. Images 908 and 909 each contained some spots, with 908 having some nonsurface spots.

4. With 15 channels processed and CSD matrices of 16 FFTs of length 1024, the following images contained surface spots at 100 Hz: 908, 909, 913, and 922. At 200 Hz, image 908 was entirely high energy and 909 contained a surface spot. At 300 Hz, image 908 was again high energy, image 909 contained a nonsurface spot, image 912 contained a surface spot, and image 913 appeared streaky. At 400 Hz, images 908 and 922 appeared streaky and images 909, 912, and 913 contained surface spots. All of the images at 500 Hz were streaky, however, images 909 and 913 were less so.

5. Of all the images with 15 channels processed and CSD matrices using 32 FFTs of length 512 imaged at 100 Hz, only image 908 contained a surface spot. Only image 909 contained a surface spot at 200 Hz. At 300 Hz, images 908, 913, and 922 were high energy, and images 909 and 912 each contained a surface spot. At 400 Hz, images 908 and 913 were high energy, image 922 was a bit streaky and contained a surface spot, and images 909 and 912 contained surface spots. The images varied greatly at 500 Hz. Image 922 appeared streaky, image 913 was all high energy, images 908 and 912 contained surface spots, and image 909 contained nonsurface spots.

6. In the group of images with 15 channels processed and CSD matrices using 64 FFTs of length 256, images 908, 913, and 922 contained surface spots at 100 Hz. At 200 Hz, images 908, 913, and 922 were all entirely high energy, image 912 was mostly high energy, and image 909 had a surface spot. At 300 Hz, images 908, 913, and 922 were high energy and images 909 and 912 contained small surface spots. At 400 Hz, images 913 and 922 were high energy, image 908 had both surface and nonsurface spots, image 909 contained only surface spots, and image 912 contained surface spots but was rather streaky. Both images 908 and 913 were high energy, image 912 was streaky, and images 909 and 922 contained surface spots at 500 Hz.

The images from the group of subjects with previous arterial blockages led to the observations detailed below:

1. In the group of images with 9 channels processed and CSD matrices using 16 FFTs of length 1024, none of the images had a localized spot at 100 Hz. At 200 Hz, images 901, 902, and 923 each contained a surface spot. At 300 Hz, image 901 showed light spots—of a yellow color rather than red. Images 904 and 923 contained some spots as well. At 400 Hz, image 903 contained some surface spots and images 902 and 923 were streaky. Images 901, 902, 923, and 925 were very streaky at 500 Hz. Images 903 and 904 were less streaky and image 924 showed very little streaking. All contained at least one spot.

2. With 9 channels processed and CSD matrices using 32 FFTs of length 512, at 100 Hz, images 902 and 904 were almost entirely high energy, and image 903 contained a surface spot. At 200 Hz, image 901 contained a large spot, image 902 had a smaller surface spot, and image 904 was primarily high energy. At 300 Hz, image 903 contained a surface spot, and image 904 again was entirely high energy. At 400 Hz, images 901 and 904 were streaky, images 902, 903, and 923 contained multiple surface spots, and image 925 contained a nonsurface spot. Images 901, 903, and 925 were very streaky at 500 Hz, and the remaining images, which were not streaky, contained some small surface spots.

3. In the group of images with 9 channels processed and CSD matrices using 64 FFTs of length 256, at 100 Hz, images 902, 903, 904, and 925 were almost entirely high energy. Images 901 and 923 were mostly high energy at 200 Hz, although some spots were visible in image 901. At 300 Hz, image 903 contained a surface spot. At 400 Hz, image 901 appeared streaky, images

902, 903, and 904 contained several surface spots, and image 925 contained a nonsurface spot. Images 901 and 925 were streaky at 500 Hz. All of the images contained multiple spots at that frequency.

4. With 15 channels processed and CSD matrices using 16 FFTs of length 1024, images 902 and 923 each contained a spot at 100 Hz. At 200 Hz, image 901 contained a surface spot, and images 903, 904, and 925 each contained a nonsurface spot. At 300 Hz, images 901, 903 and 904 each contained a surface spot and image 925 contained multiple nonsurface spots. At 400 Hz, image 923 appeared a bit streaky, images 902, 903, and 925 each contained a nonsurface spot, and images 901, 904, and 924 contained surface spots. At 500 Hz, all images contained spots. Images 901, 904, 923, and 925 were extremely streaky.

5. In the group of images with 15 channels processed and CSD matrices using 32 FFTs of length 512, at 100 Hz, images 901, 902, and 903 contained surface spots. At 200 Hz, images 901, 902, 903 and 904 contained surface spots. At 300 Hz, images 901, 903, and 904 contained surface spots and image 924 contained a nonsurface spot. At 400 Hz, all of the images contained both surface and nonsurface spots. The following images were streaky at 500 Hz: 901, 903, 923, and 925. Images 902, 904, and 924 contained surface spots.

6. In the group of images with 15 channels processed and CSD matrices using 64 FFTs of length 256, images 901, 902, 903, and 904 all contained surface spots at 100 Hz. At 200 Hz, image 901 contained a surface spot, and images 902 and 904 contained nonsurface spots. At 300 Hz, image 925 contained a nonsurface spot. At 400 Hz, image 923 was a bit streaky and images 903 and 925 contained both surface and nonsurface spots. The following images were streaky at 500 Hz: 901, 903, 923, and 925. Images 902, 904, and 924 contained surface spots.

The final group of images studied—the case of "other heart disease"—is described below:

1. In the group of images with 9 channels processed and CSD matrices using 16 FFTs of length 1024, there were no localized spots at 100 Hz. At 200 Hz, image 906 contained a nonsurface spot. At both 300 and 400 Hz there were no distinct spots in any of the images. Images 906 and 907 were streaky at 500 Hz.

2. In the group of images with 9 channels processed and CSD matrices using 32 FFTs of length 512, there were no spots in any of the images at 100 Hz. At 200 Hz, image 906 contained a nonsurface spot. At 300 Hz, image 907 contained small surface spots. At 400 Hz, image 905 contained small surface spots. Images 906 and 907 were streaky at 500 Hz.

3. With 9 channels processed and CSD matrices using 64 FFTs of length 256, there were no spots in any of the images at 100 or 200 Hz. At 300 Hz, image 907 contained very small surface spots. At 400 Hz, that image contained very small nonsurface spots. Images 906 and 907 were streaky at 500 Hz.

4. In the group of images with 15 channels processed and CSD matrices using 16 FFTs of length 1024, all of the images contained small surface spots at 100 Hz. At 200 Hz, images 906 and 907 each contained a nonsurface spot. At 300 Hz, images 905 and 906 contained surface spots, and image 907 contained surface and nonsurface spots. At 400 Hz, images 906 and 907 contained nonsurface spots. Images 906 and 907 were very streaky at 500 Hz.

5. In the group of images with 15 channels processed and CSD matrices using 32 FFTs of length 512, all of the images contained small surface spots at 100 Hz. At 200 Hz, images 906 and 907 contained nonsurface spots. Image 907 contained a surface spot at 300 Hz. At 400 Hz, both images 906 and 907 contained nonsurface spots. Images 906 and 907 were streaky at 500 Hz, and image 905 was mostly high energy.

6. In the group of images with 15 channels processed and CSD matrices using 64 FFTs of length 256, small surface spots were present in all images at 100 Hz. At 200 Hz, images 906 and 907 contained nonsurface spots. At 300 Hz, image 905 was primarily high energy and image 907 contained a nonsurface spot. At 400 Hz, image 906 contained a small nonsurface spot. And finally, at 500 Hz, image 906 contained small nonsurface spots. None of the images appeared streaky at this frequency.

DISCUSSION

Several interesting patterns can be discerned from the observations made in the preceding section. The first, which was mentioned briefly in the "observations" section, is that all of the images did contain a large area of high energy, usually in the upper left corner but on occasion in the upper right corner. This image was sometimes singular and very distinct, surrounded by areas of significantly lower energy. At other times, the high-energy area was mirrored on the opposite side, occasionally by an area of equal energy intensity, but most often by an area of lower energy. The variation between images was great, but the important finding was that the mass of high energy exists on a consistent basis.

Secondly, small spots located so that the entire area of high energy is visible in the image appear much more often at higher frequencies. Small spots close to the surface were far more common than spots located at least 2 centimeters into the chest.

The images made from the data of subjects in "good" health were far more consistent than those from subjects who smoked or had heart problems. This consistency is more noticeable at frequencies of 300 Hz or below. In most cases, the images at frequencies within this range did not have localized spots, and most of the spots that did exist were located near the surface.

A third pattern concerns a comparison of images with 9 channels processed and those with 15 channels processed. The images in the latter category consistently had more areas of

higher energy. While there were images in the first category that were mostly or entirely high energy, the second category had more localized spots, especially those near the surface. This is especially noticeable in the final group of images obtained from the single subject with a heart condition unrelated to arterial blockage. At 100 Hz, this subject's images with nine channels processed showed no localized spots. With 15 channels processed, however, several small spots appeared near the chest surface in each of the images.

The multiple combinations of FFT length and number of FFTs revealed another pattern. Aliasing, which is identified by a "streaking" of the image, was far more noticeable in those images processed with 16 FFTs of length 1024 than with 32 and 64 FFTs. In 6 of the 8 groupings,* the number of images identified as "very streaky" declines as the number of FFTs increased. In the two groupings where this did not happen, the number of images that appeared streaky remained the same. In no case did the number of images classified as "streaky" increase with the number of FFTs used.

A similar pattern may be found in the presence of streaking at 400 Hz. In 4 of the 8 cases, the number of streaky images at 400 Hz dropped when the image used 64 FFTs instead of 16. In three of the other four groupings, the number of streaky images remained constant. In only one case did the number increase, from one streaky image with 16 FFTs to none with 32 FFTs, then back up to one streaky image with 64 FFTs. This occurred in the group of subjects with previous arterial blockage where 15 channels were processed when producing the image.

CONCLUSIONS

The conclusions that can be drawn from the data provided in this memorandum are not numerous. The observations indicate that there are several advantages to processing the data using 64 FFTs in the CSD matrix. The greater correlation among the images of subjects in good health indicates that these images may be of most use in determining the spots of energy that are produced by normal heart sounds.

* The eight groupings comprise the original four groupings, each divided into 15 channels processed and 9 channels processed.

APPENDIX A
IMAGES FOR IMAGE SET 1

The image set in this appendix comprises images from 25 data sets. Each data set consists of approximately 16,000 data points, selected from a 60-second sample. The points were taken exclusively from the diastolic phase of the heartbeat. An EKG was used to definitively identify the S1 heart sound. From that, the S2 heart sound was located and data points were taken from the interval between the S2 sound and the following S1 sound.

Each of the 25 data sets was processed using three different combinations of FFT length and number of FFTs performed: 16 FFTs with length of 1024 points, 32 FFTs with length of 512 points, and 64 FFTs with length of 256 points, creating a total of 75 processed data sets.

For image set 1, the following input values were used in creating the beamformed images. The wave speed through tissue at 100 Hz was set at 4 m/s. The wave speed at 1000 Hz was set at 12 m/s. These values were selected based on given wave speed values of 3.75 m/s and 13 m/s, respectively, and should be experimented with in future image sets. The RVDR enhancement value was 6.0. This value was chosen while experimenting with one of the above data sets. All 15 channels were processed.

Filename: 901_16_1024.csd
Runname: 901_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.042
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 4.351
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.859
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 2.929
RVDR Surface Normalization (dB): 0.8271
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.034
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 8.182
RVDR Surface Normalization (dB): 0.8692
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

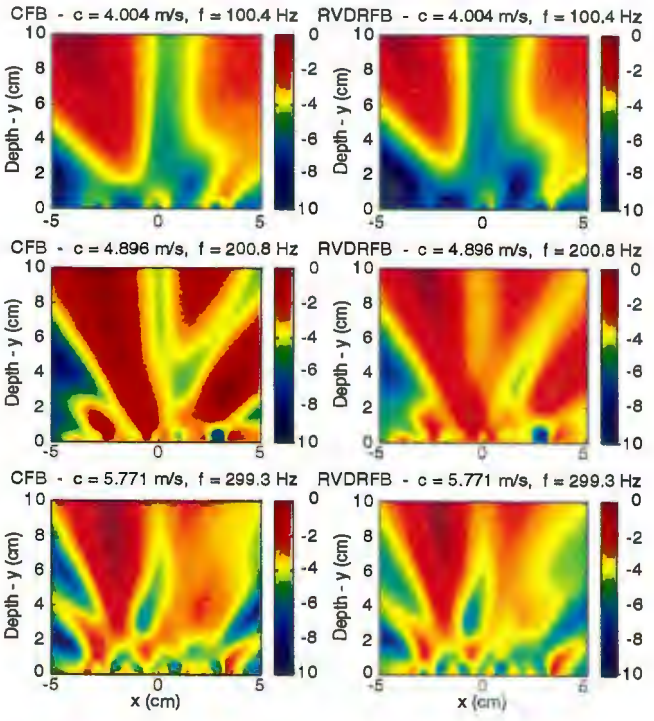

Figure A-1. Image of Data Set 901: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 901_16_1024.csd
Runname: 901_16_1024
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.034
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 8.182
RVDR Surface Normalization (dB): 0.8692
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.17
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 0.7129
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.125
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 8.384
RVDR Surface Normalization (dB): 0.6274
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

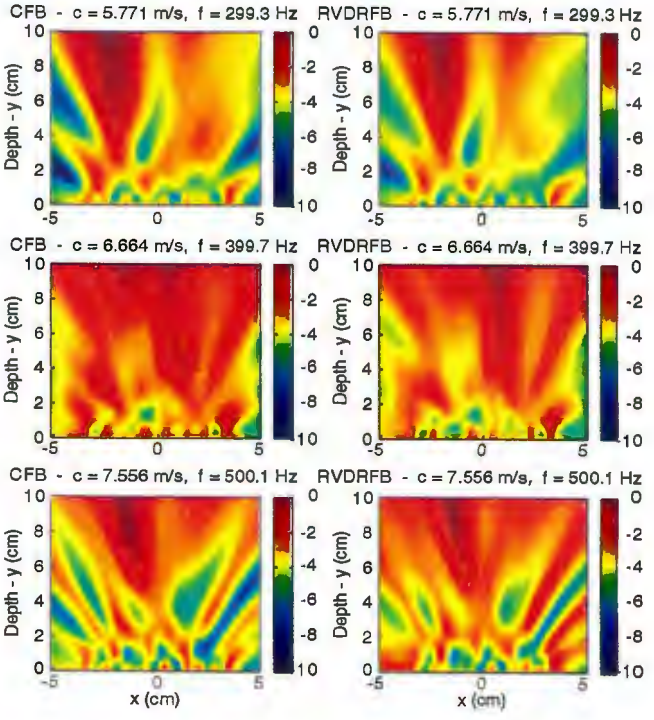

Figure A-2. Image of Data Set 901: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 901_32_512.csd
Runname: 901_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.109
CFB Surface Maximum Location
X (cm): -4.184 Y (cm): 10
RVDR Surface Normalization (dB): 4.631
RVDR Surface Maximum Location
X (cm): -4.164 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.611
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.982
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.482
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.92
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

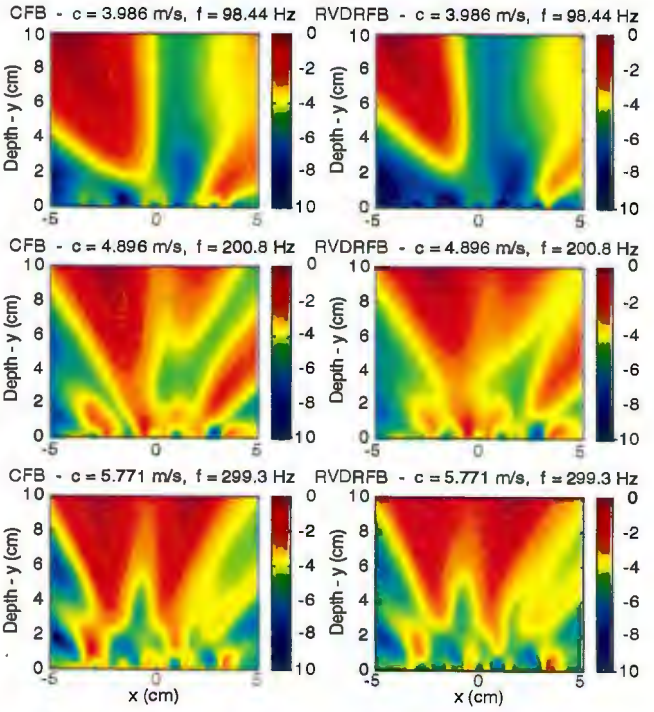

Figure A-3. Image of Data Set 901: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 901_32_512.csd
Runname: 901_32_512
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.482
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.92
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.92
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.569
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.664
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.21
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

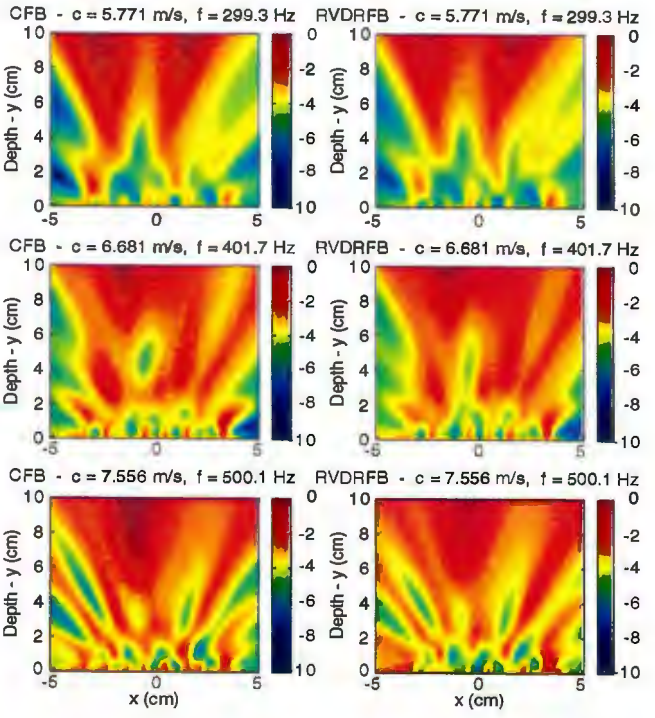

Figure A-4. Image of Data Set 901: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 901_64_256.csd
Runname: 901_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.853
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 3.939
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.671
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.001
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.412
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.721
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

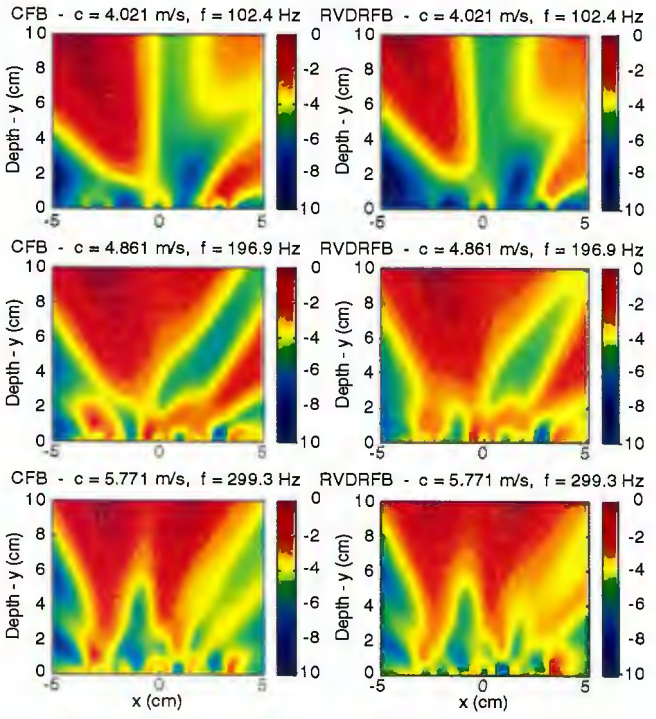

Figure A-5. Image of Data Set 901: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 901_64_256.csd
Runname: 901_64_256
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.412
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.721
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.474
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.54
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.666
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.384
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

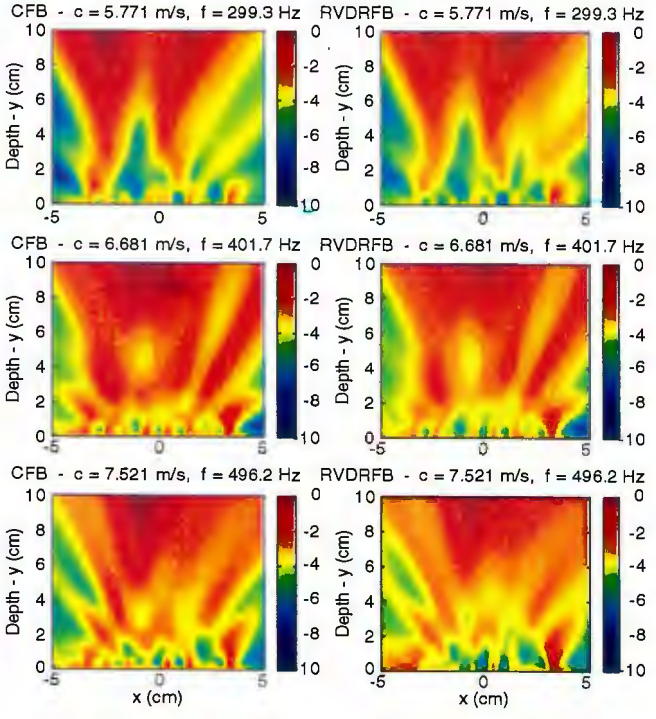

Figure A-6. Image of Data Set 901: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 902_16_1024.csd
Runname: 902_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.131
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 3.903
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.561
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 3.673
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 6.549
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.247
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

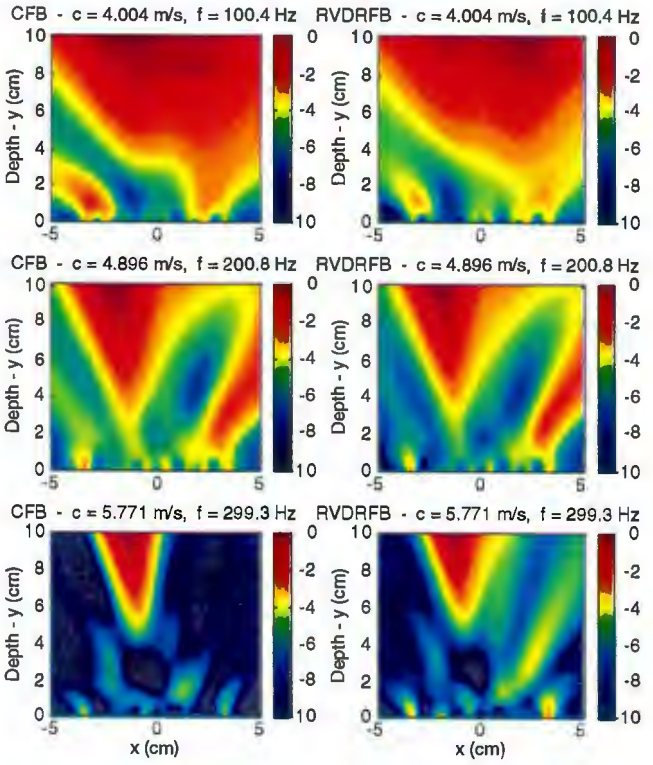

Figure A-7. Image of Data Set 902: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 902_16_1024.csd
Runname: 902_16_1024
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 6.549
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.247
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.854
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.1545
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.841
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.6303
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

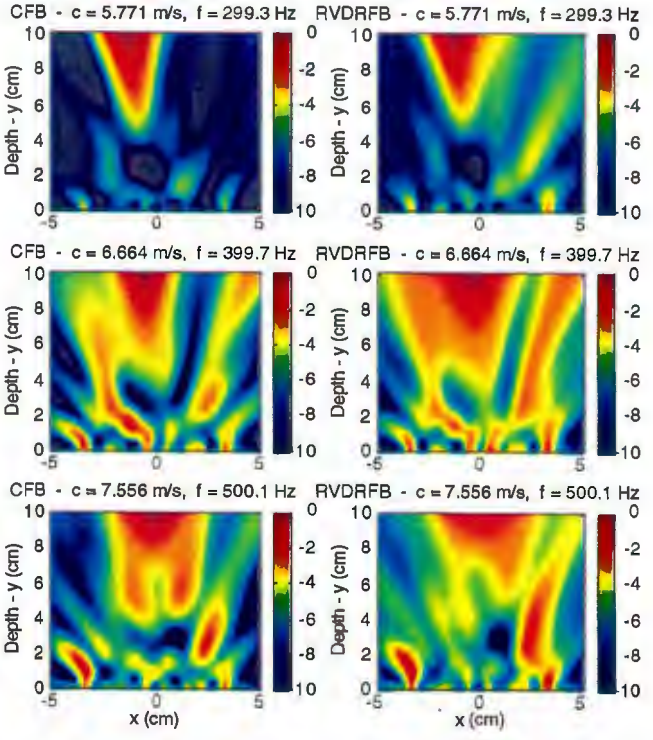

Figure A-8. Image of Data Set 902: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 902_32_512.csd
Runname: 902_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.864
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.802
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.263
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.961
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 5.997
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.665
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

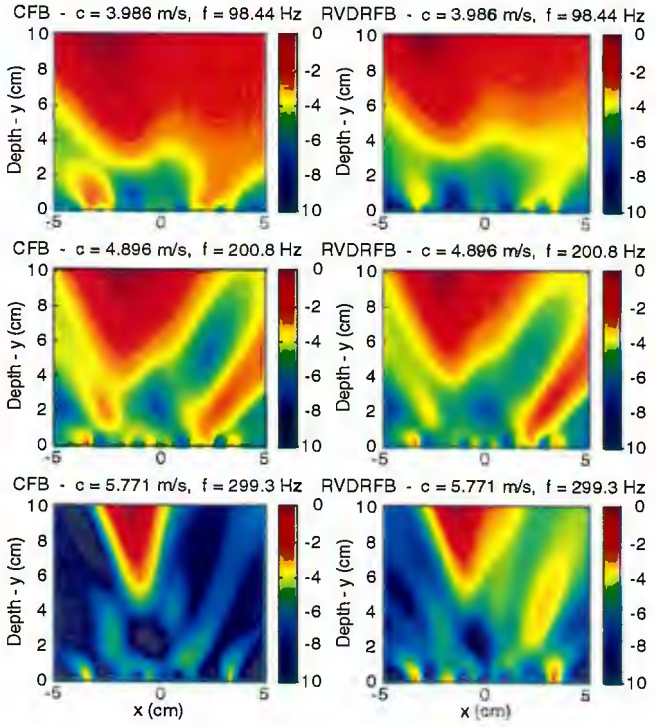

Figure A-9. Image of Data Set 902: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 902_32_512.csd
Runname: 902_32_512
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 5.997
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.665
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.72
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 0.5041
RVDR Surface Normalization (dB): 0.7547
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1

Frequency 500 Hz
CFB Surface Normalization (dB): 2.972
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 1.11
RVDR Surface Normalization (dB): 0.6905
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 1.11

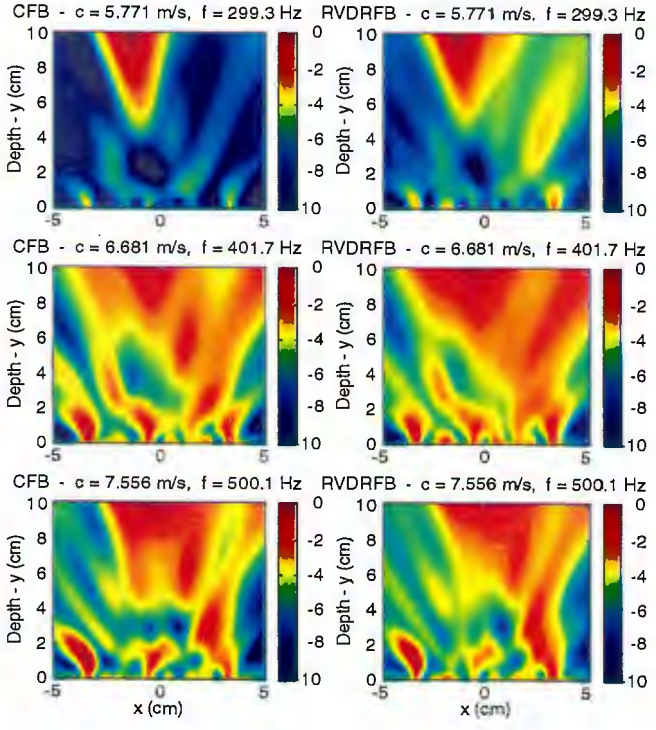

Figure A-10. Image for Data Set 902: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 902_64_256.csd
Runname: 902_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.813
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 4.126
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.944
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 3
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 5.408
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.189
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

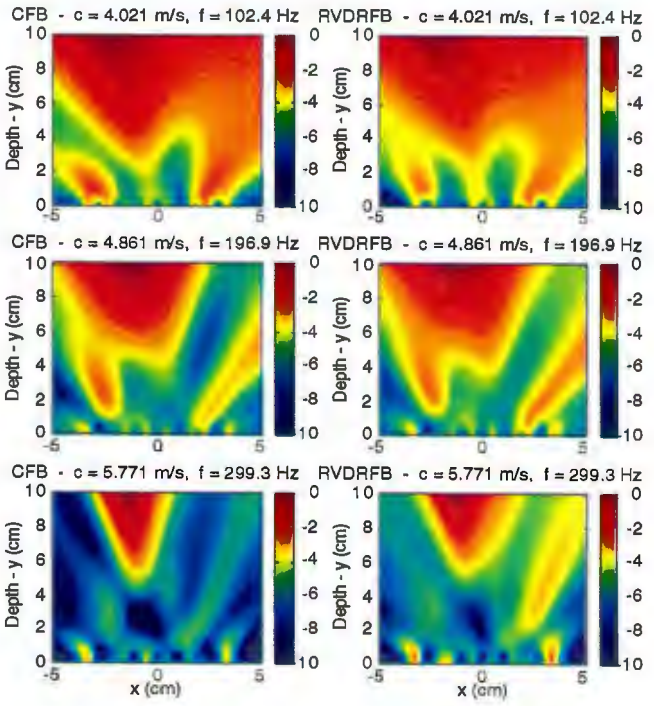

Figure A-11. Image for Data Set 902: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 902_64_256.csd
Runname: 902_64_256
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 5.408
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.189
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.658
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 0.302
RVDR Surface Normalization (dB): 0.6613
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.229
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.6633
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

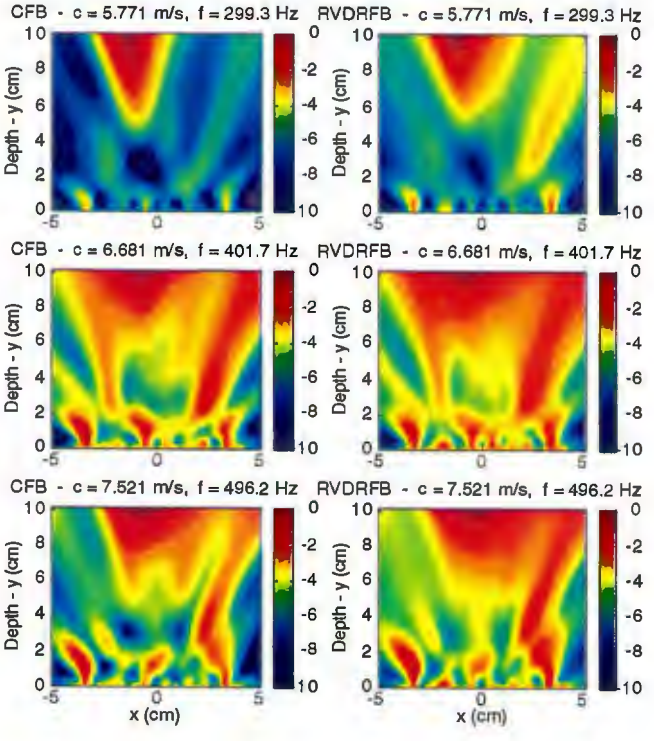

Figure A-12. Image of Data Set 902: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 903_16_1204.csd
Runname: 903_16_1204
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.355
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 6.13
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.449
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.217
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.726
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.398
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

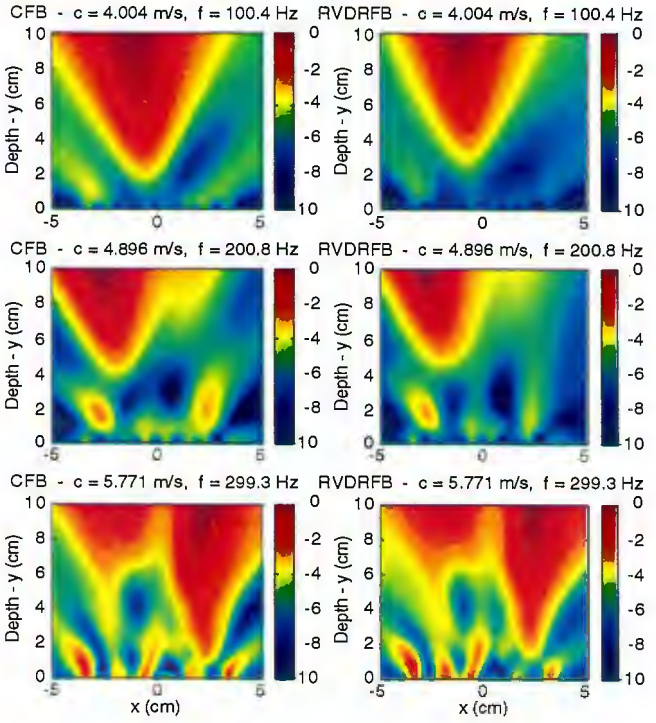

Figure A-13. Image for Data Set 903: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 903_16_1204.csd
Runname: 903_16_1204
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.726
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.398
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.102
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.48
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.177
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.45
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

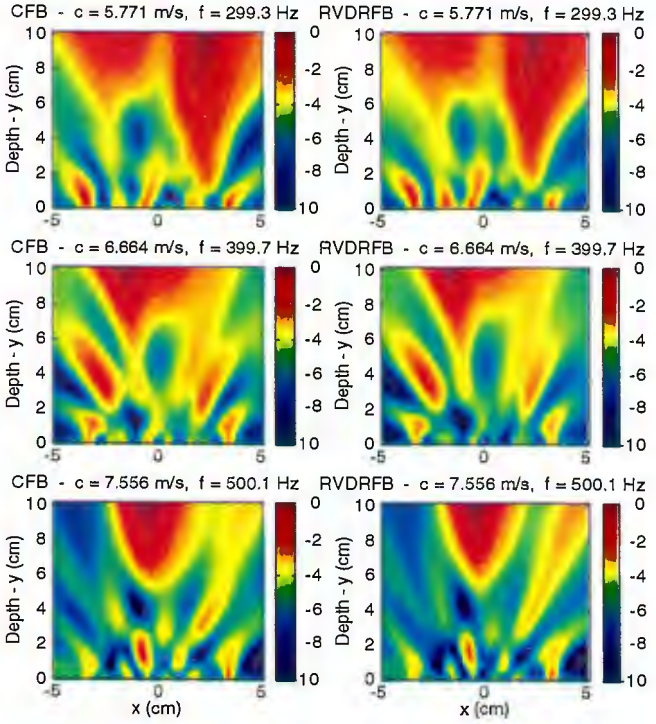

Figure A-14. Image for Data Set 903: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 903_32_512.csd
Runname: 903_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.923
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 4.723
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.752
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.117
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.83
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.496
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

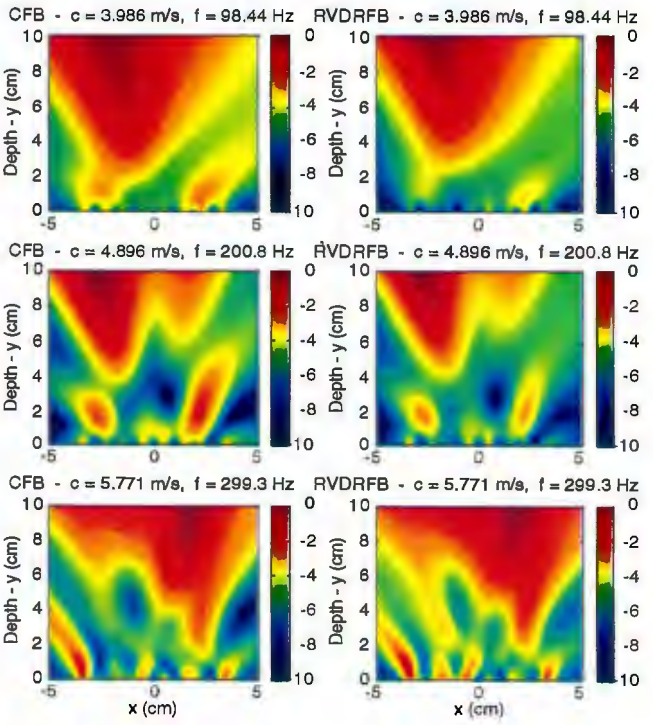

Figure A-15. Image for Data Set 903: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 903_32_512.csd
Runname: 903_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.83
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.496
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.001
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.536
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.665
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.145
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

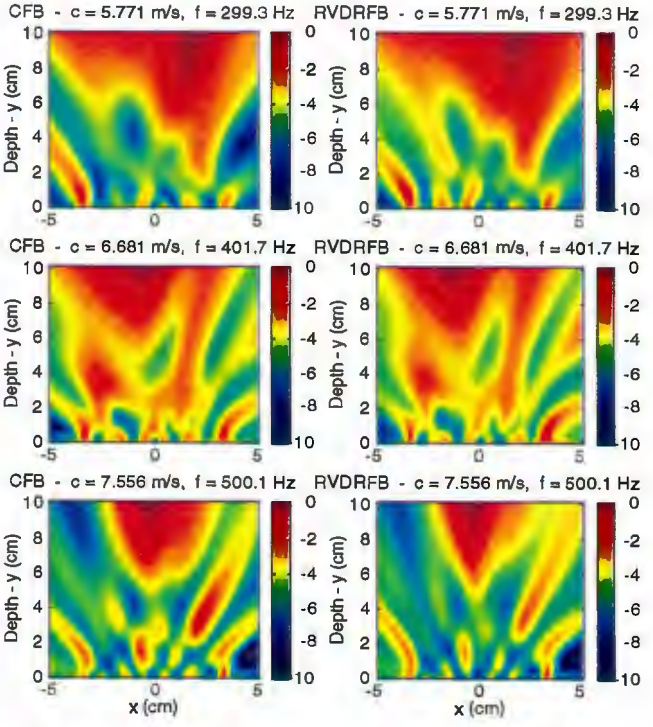

Figure A-16. Image for Data Set 903: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 903_64_256.csd
Runname: 903_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.763
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 4.714
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.103
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.668
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.827
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.494
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

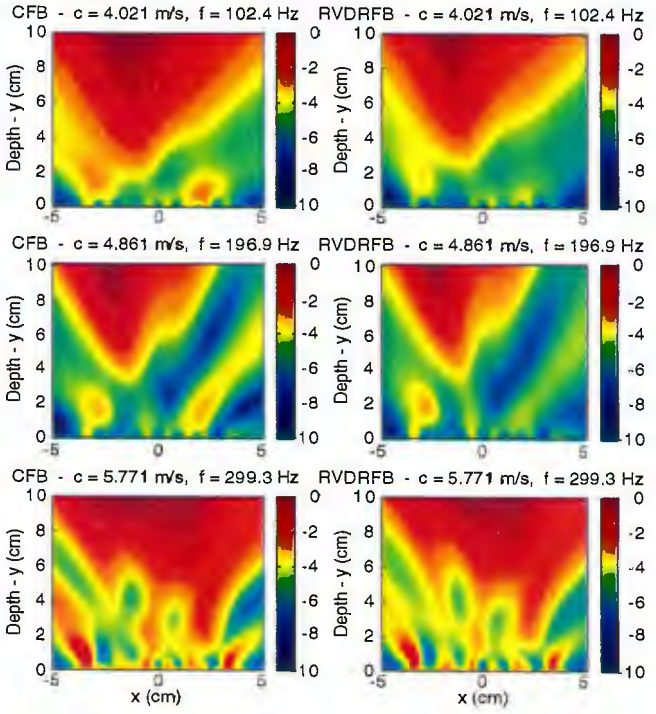

Figure A-17. Image for Data Set 903: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 903_64_256.csd
Runname: 903_64_256
DAWG Data
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.827
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.494
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.963
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.743
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.785
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.494
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

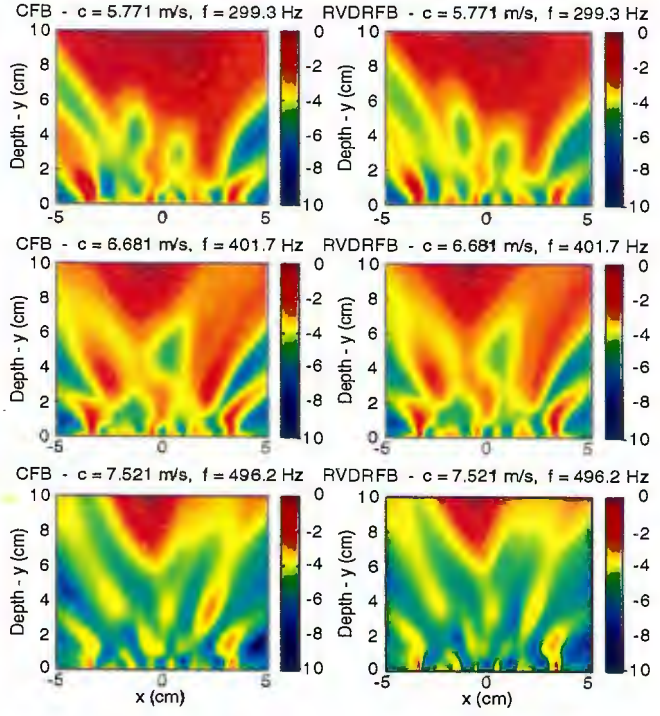

Figure A-18. Image for Data Set 903: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 904_16_1024.csd
Runname: 904_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.417
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 5.156
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.006
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.588
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.598
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.496
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

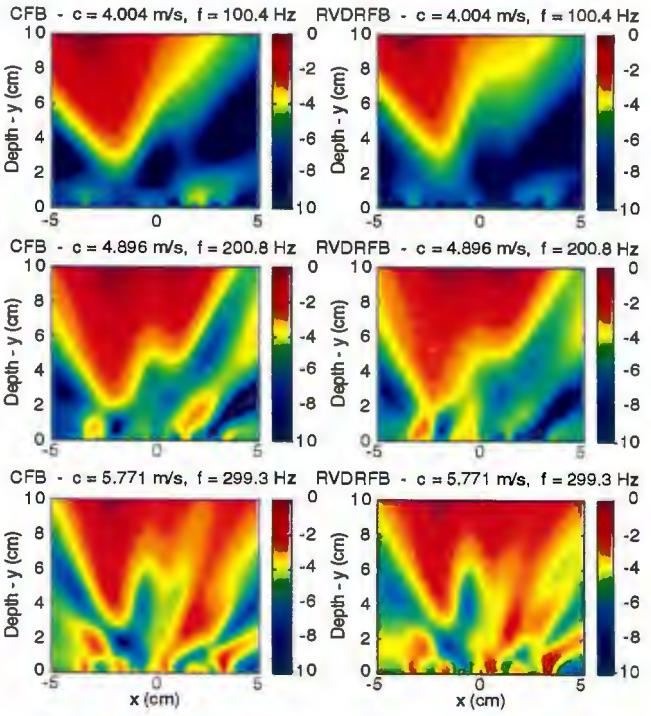

Figure A-19. Image for Data Set 904: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 904_16_1024.csd
Runname: 904_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.598
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.496
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.531
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 0.7427
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.915
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 0.3721
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

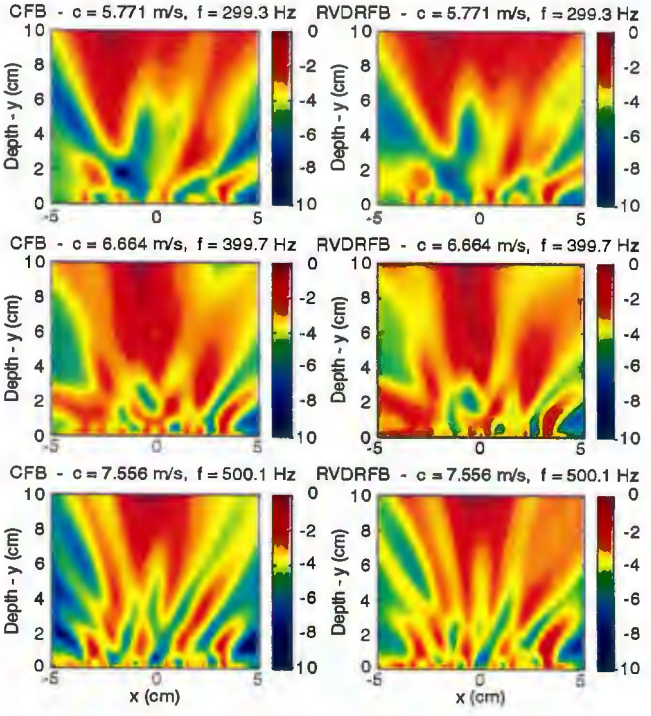

Figure A-20. Image for Data Set 904: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 904_32_512.csd
Runname: 904_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.068
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 4.012
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.024
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.926
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.354
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.983
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

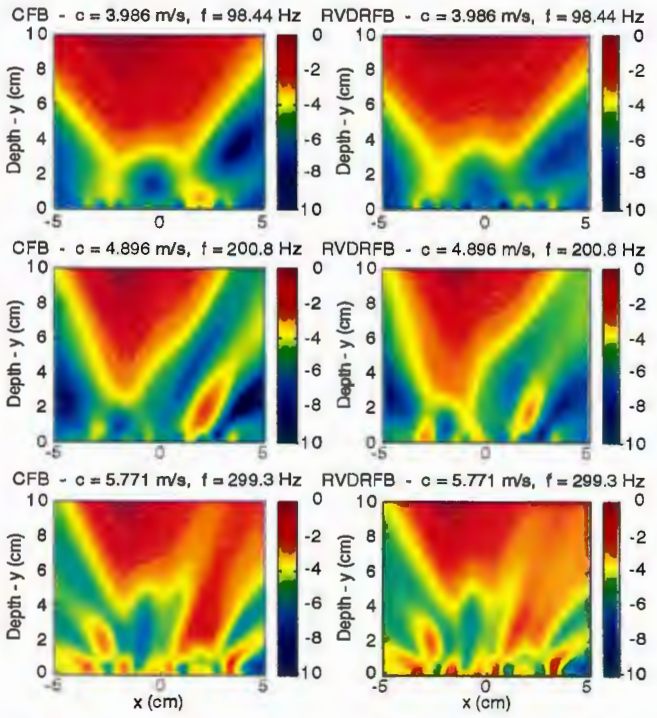

Figure A-21. Image for Data Set 904: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 904_32_512.csd
Runname: 904_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.354
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.983
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.058
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.611
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.57
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.7163
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

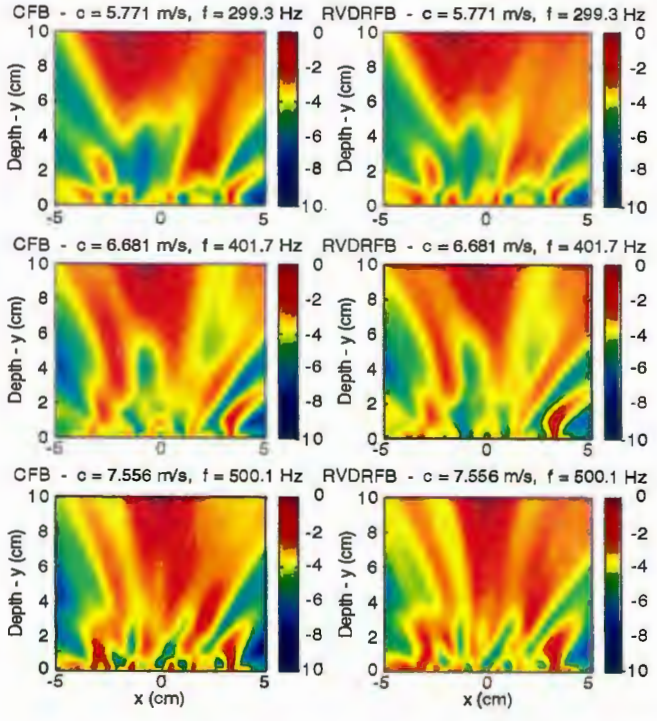

Figure A-22. Image for Data Set 904: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 904_64_256.csd
Runname: 904_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.614
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.1
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.808
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.87
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.854
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.575
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

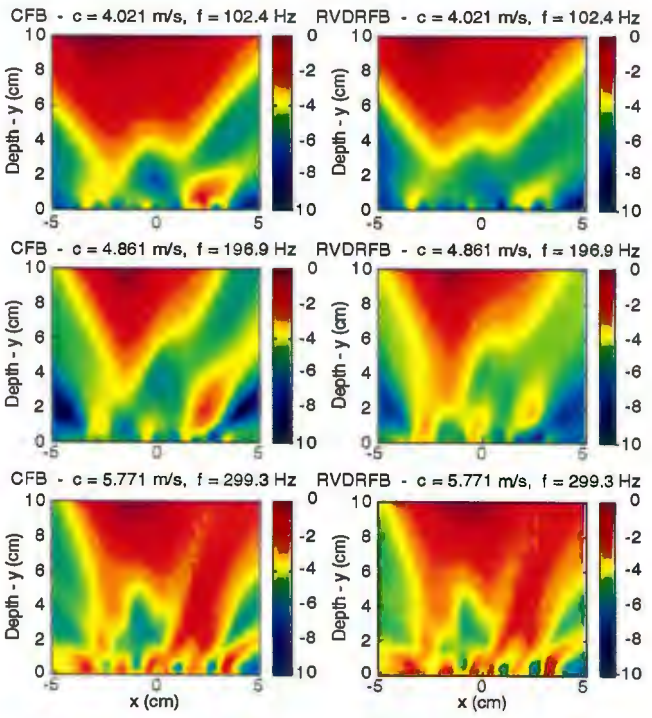

Figure A-23. Image for Data Set 904: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 904_64_256.csd
Runname: 904_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.854
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.575
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.572
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.448
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.989
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.887
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

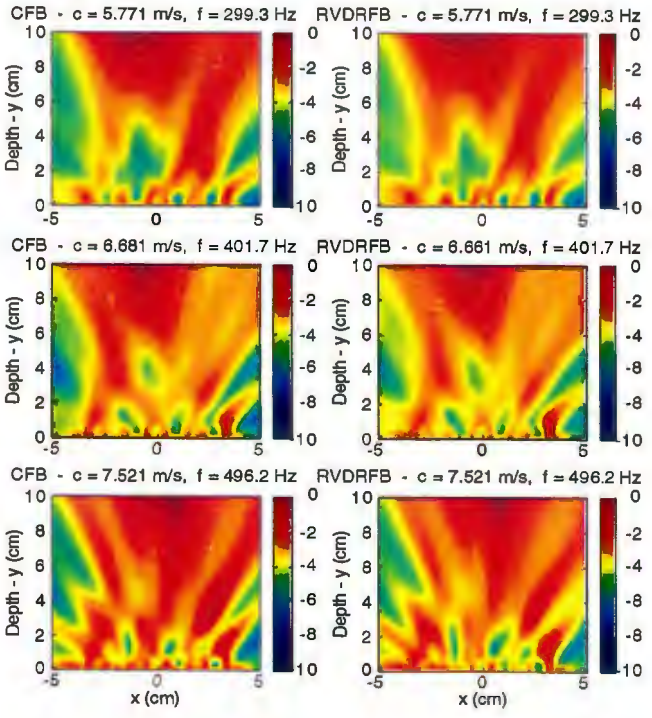

Figure A-24. Image for Data Set 904: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 905_16_1024.csd
Runname: 905_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.002
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 4.029
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.893
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 0.6038
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.749
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.509
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

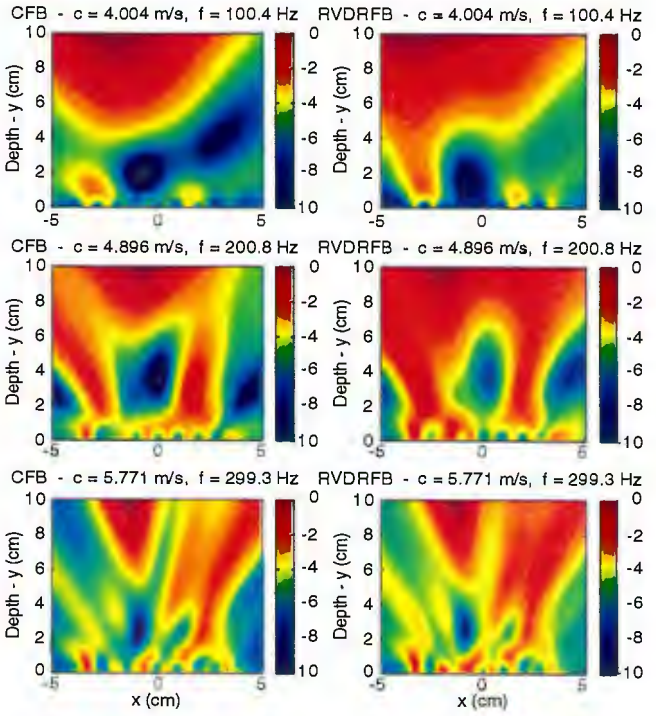

Figure A-25. Image of Data Set 905: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 905_16_1024.csd
Runname: 905_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.749
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.509
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 1.932
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 0.07308
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.917
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): -0.0003202
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 5.151

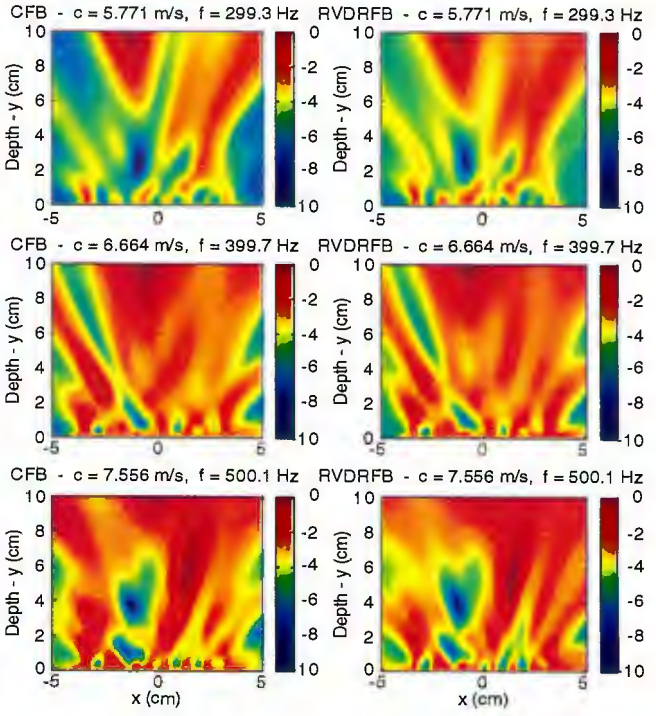

Figure A-26. Image of Data Set 905: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 905_32_512.csd
Runname: 905_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.574
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.05
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.448
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.7479
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.639
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.8077
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

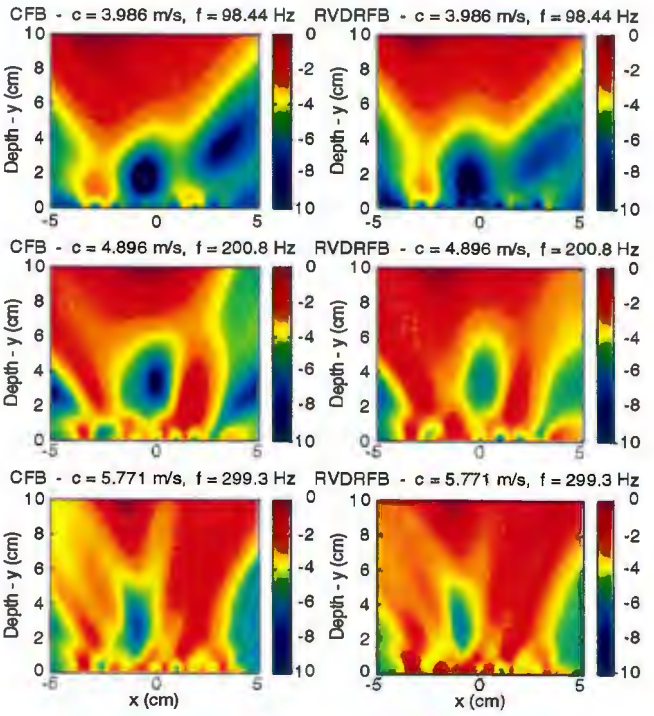

Figure A-27. Image of Data Set 905: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 905_32_512.csd
Runname: 905_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.639
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.8077
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.75
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.9837
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.898
CFB Surface Maximum Location
X (cm): -0.3081 Y (cm): 10
RVDR Surface Normalization (dB): 0.3828
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 0.7061

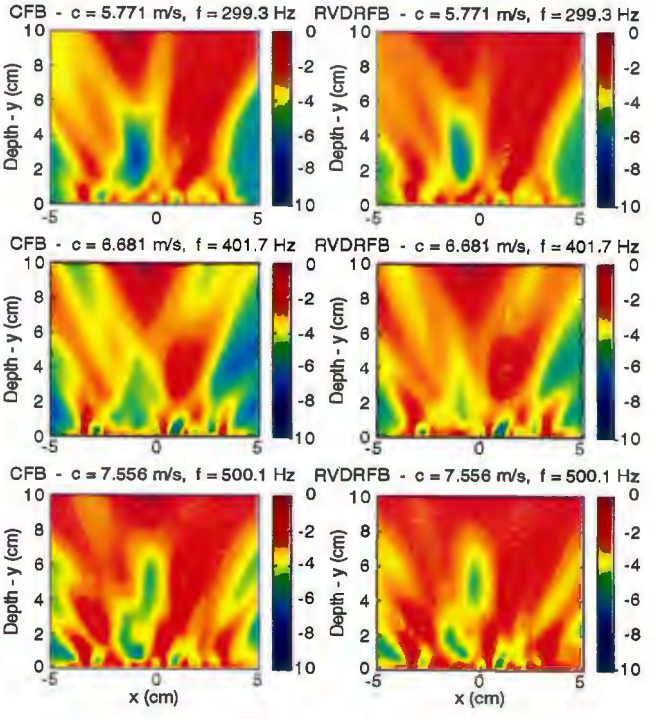

Figure A-28. Image of Data Set 905: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 905_64_256.csd
Runname: 905_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.177
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.735
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.74
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 0.8726
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.133
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 0.6213
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

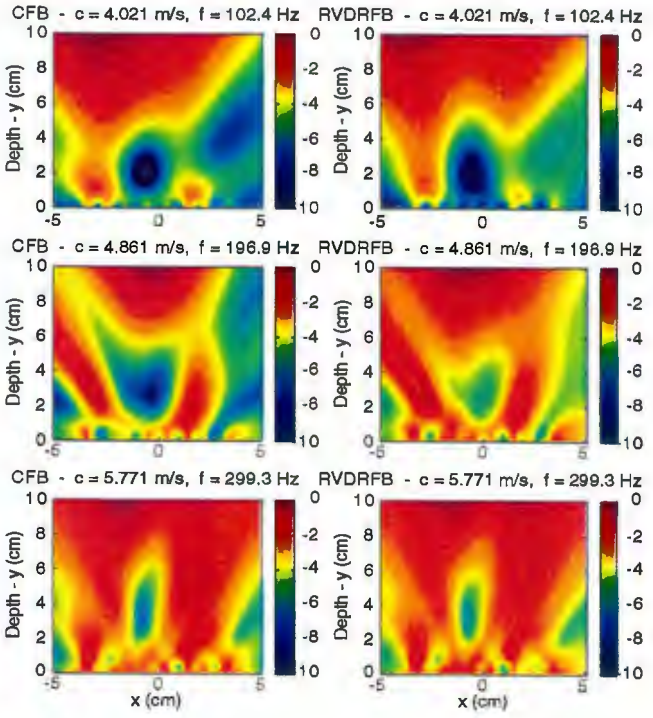

Figure A-29. Image of Data Set 905: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 905_64_256.csd
Runname: 905_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.133
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 0.6213
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.79
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.345
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.382
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.9431
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

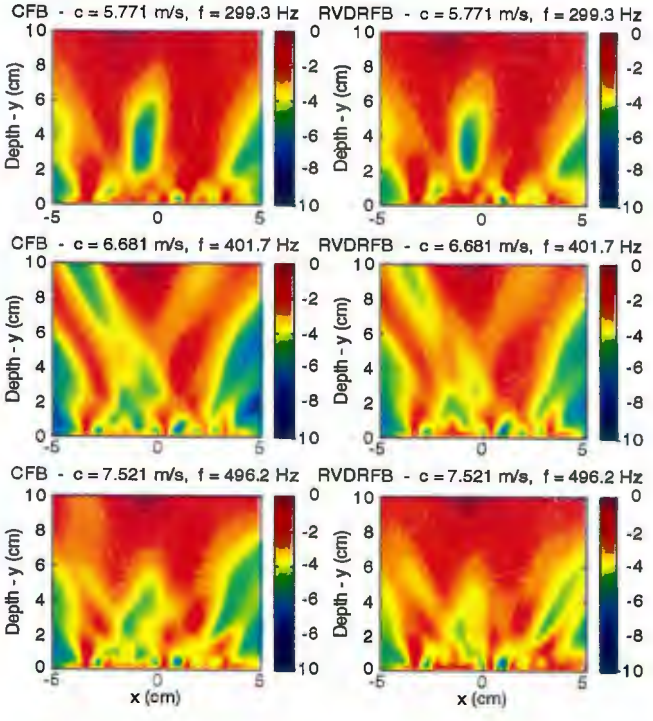

Figure A-30. Image of Data Set 905: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 906_16_1024.csd
Runname: 906_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.509
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.808
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.7
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.385
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.966
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.9906
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

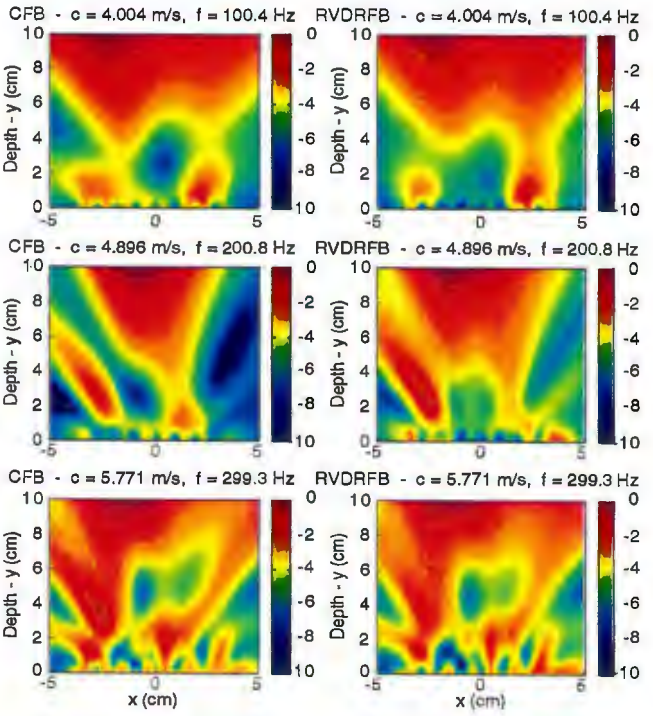

Figure A-31. Image of Data Set 906: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 906_16_1024.csd
Runname: 906_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.966
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.9906
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.785
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.771
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.201
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.262
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

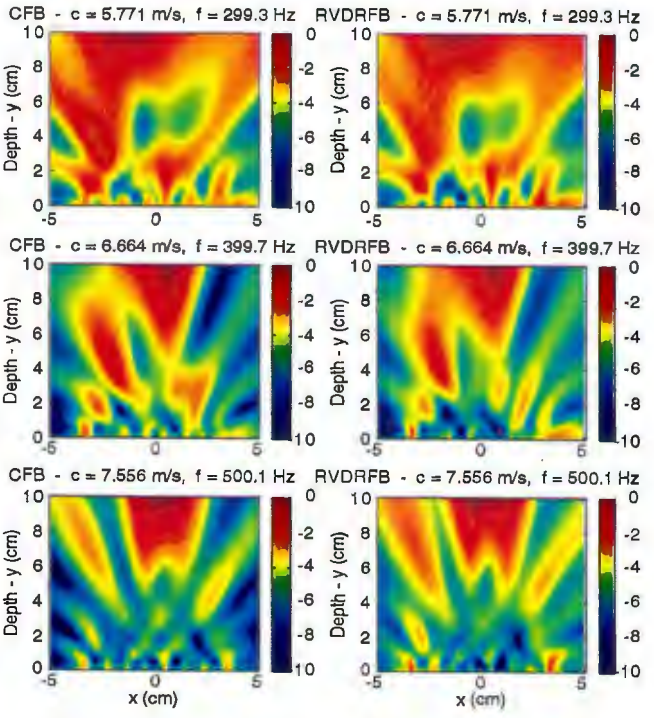

Figure A-32. Image of Data Set 906: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 906_32_512.csd
Runname: 906_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.27
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.288
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.574
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.364
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.695
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.6693
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

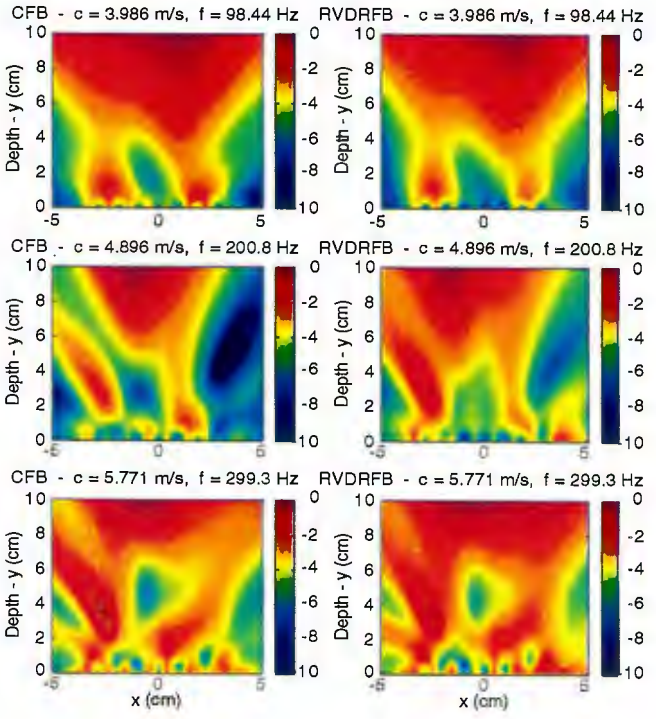

Figure A-33. Image of Data Set 906: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 906_32_512.csd
Runname: 906_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.695
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.6693
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.496
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.786
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.314
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.181
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

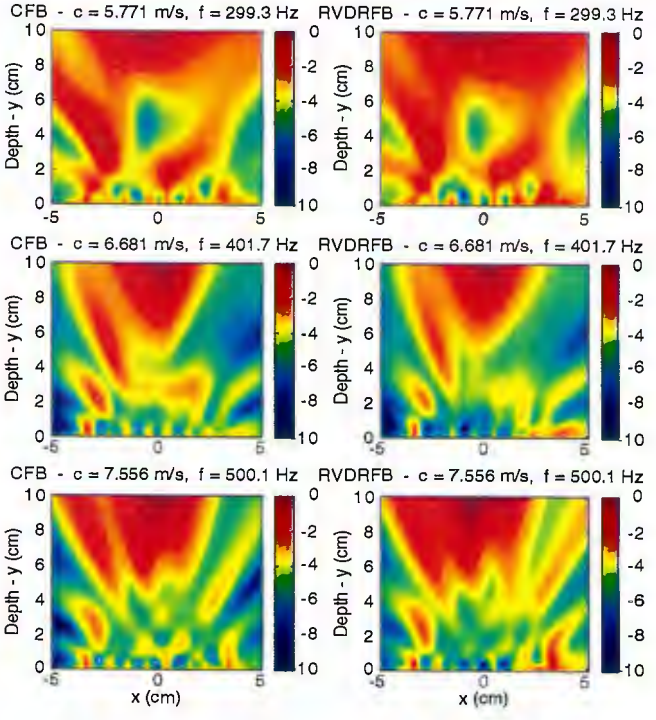

Figure A-34. Image of Data Set 906: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 906_64_256.csd
Runname: 906_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.613
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 3.311
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.843
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.606
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.526
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.155
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

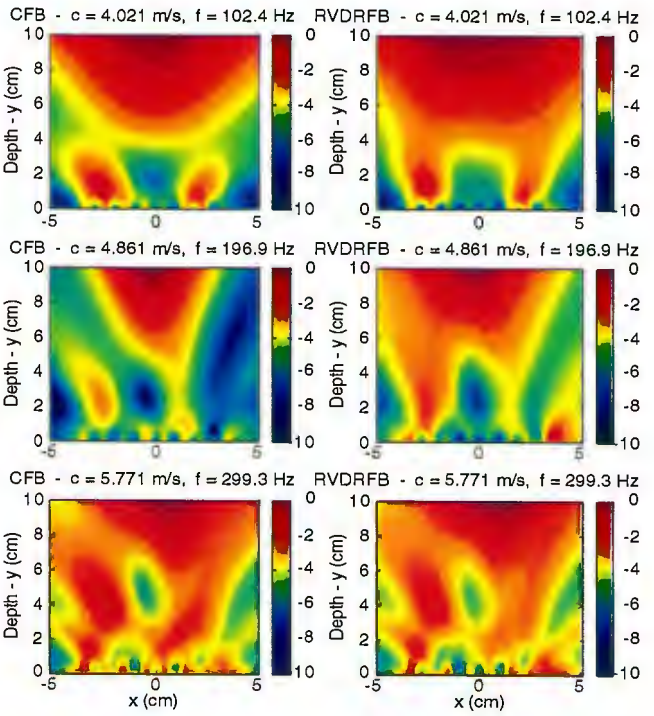

Figure A-35. Image of Data Set 906: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 906_64_256.csd
Runname: 906_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.526
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.155
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.152
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.722
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.962
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.6561
RVDR Surface Maximum Location
X (cm): 0.102 Y (cm): 10

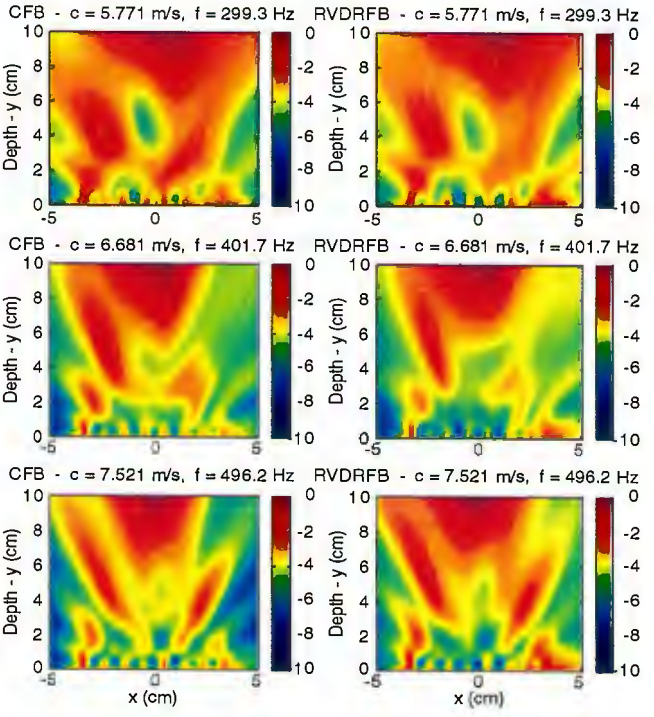

Figure A-36. Image of Data Set 906: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 907_16_1024.csd
Runname: 907_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.202
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.508
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.281
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.632
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.704
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 0.08499
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 0.302

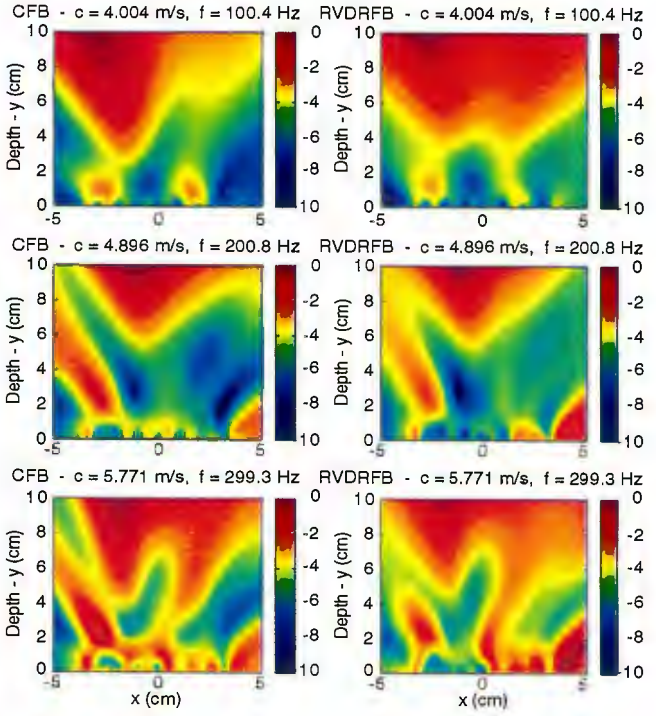

Figure A-37. Image of Data Set 907: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 907_16_1024.csd
Runname: 907_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.704
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 0.08499
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 0.302

Frequency 400 Hz
CFB Surface Normalization (dB): 3.899
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.4397
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.965
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): -0.9405
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1

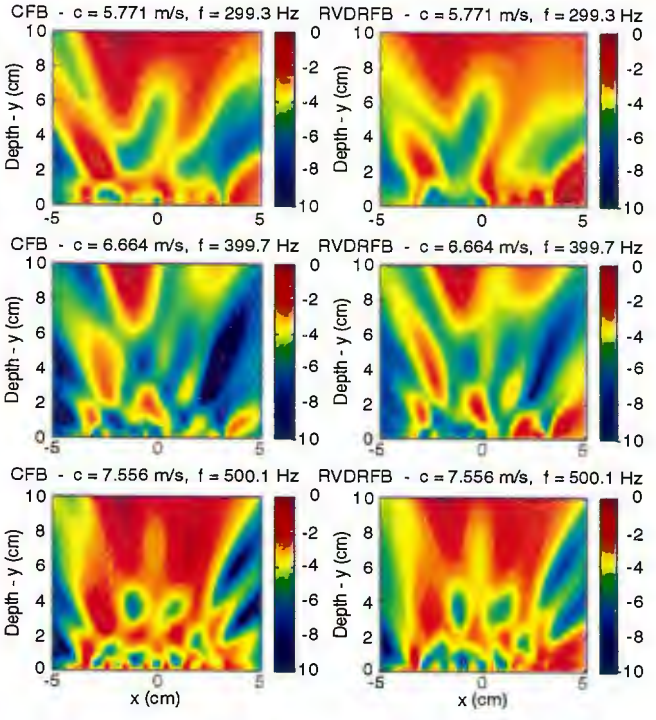

Figure A-38. Image of Data Set 907 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 907_32_512.csd
Runname: 907_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.524
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.637
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.373
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.556
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.584
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.2848
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 0.5041

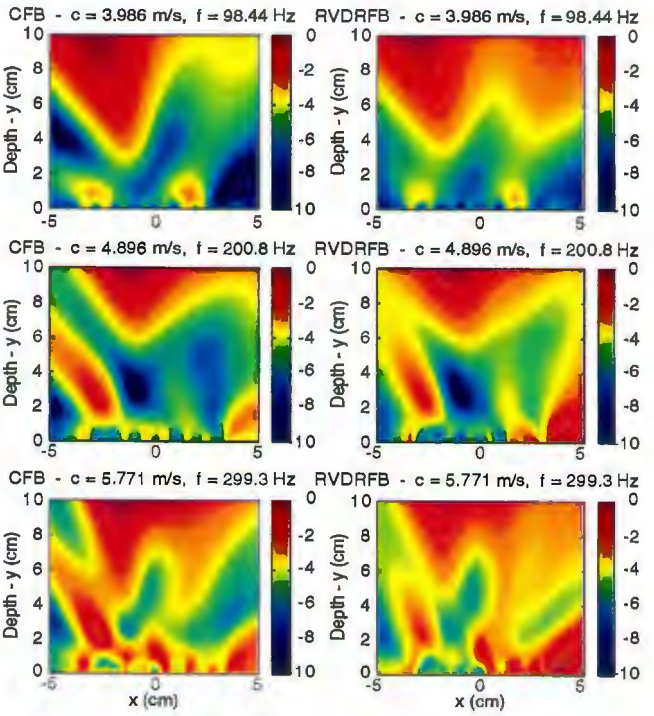

Figure A-39. Image of Data Set 907: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 907_32_512.csd
Runname: 907_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.584
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.2848
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 0.5041

Frequency 400 Hz
CFB Surface Normalization (dB): 2.074
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 0.6464
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 0.5041

Frequency 500 Hz
CFB Surface Normalization (dB): 1.794
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): -0.7599
RVDR Surface Maximum Location
X (cm): 3.571 Y (cm): 0.1

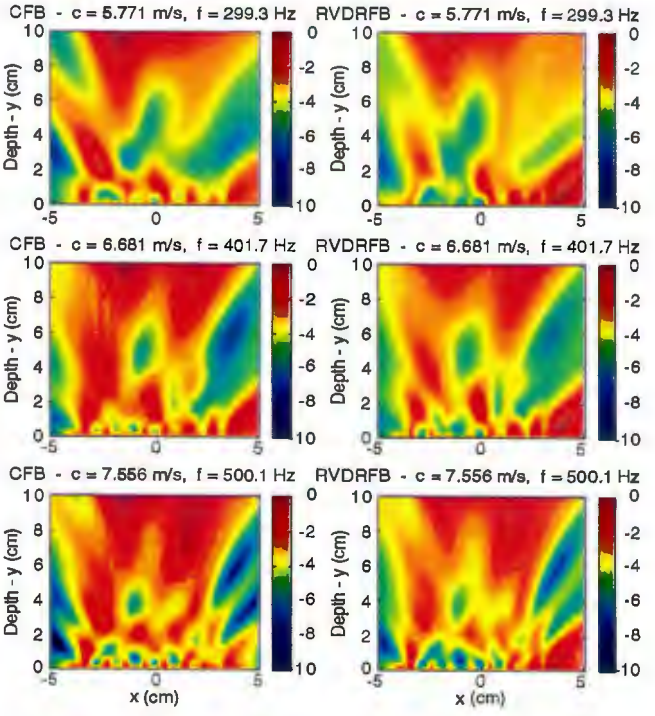

Figure A-40. Image for Data Set 907: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 907_64_256.csd
Runname: 907_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.691
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 3.687
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.735
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.412
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.863
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.4309
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

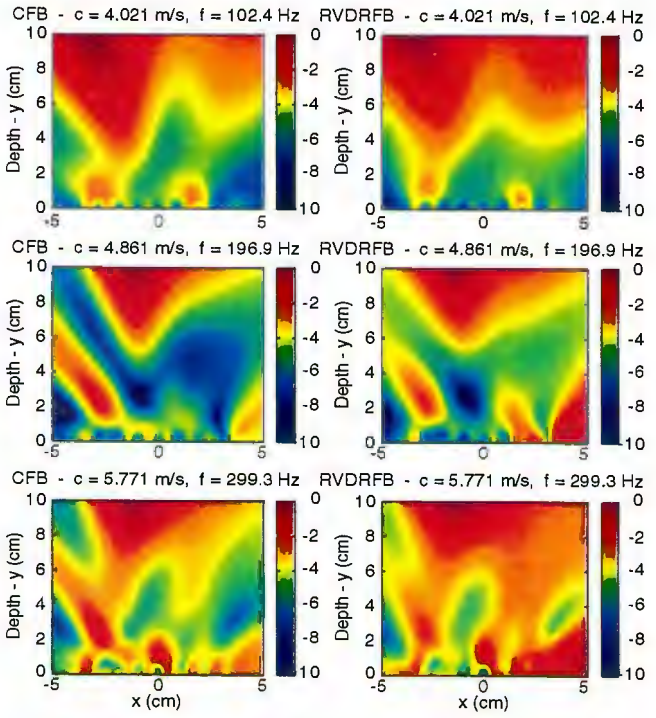

Figure A-41. Image of Data Set 907: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 907_64_256.csd
Runname: 907_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.863
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.4309
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.743
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.5253
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 0.5041

Frequency 500 Hz
CFB Surface Normalization (dB): 1.999
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): -0.1175
RVDR Surface Maximum Location
X (cm): 3.571 Y (cm): 0.1

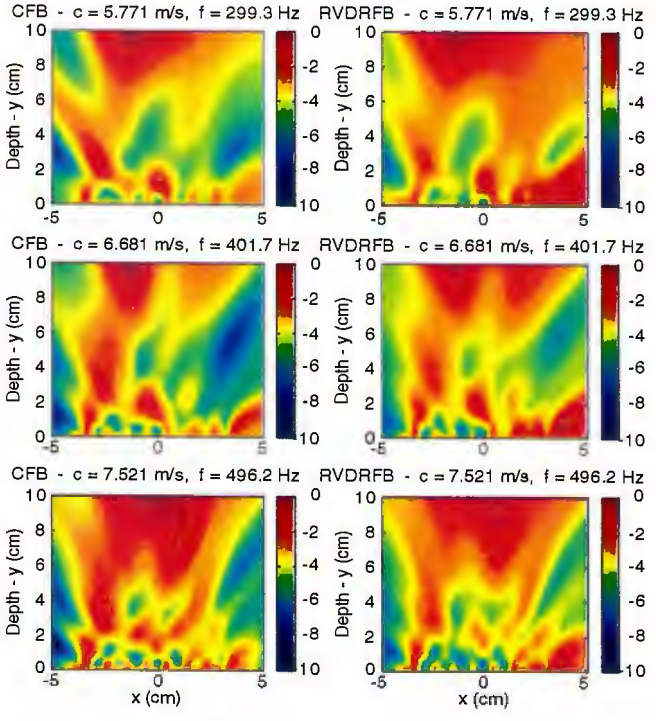

Figure A-42. Image of Data Set 907: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 908_16_1024.csd
Runname: 908_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.18
CFB Surface Maximum Location
X (cm): -5 Y (cm): 10
RVDR Surface Normalization (dB): 3.523
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.734
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 4.141
RVDR Surface Normalization (dB): 0.9864
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 4.141

Frequency 300 Hz
CFB Surface Normalization (dB): 2.195
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.7259
RVDR Surface Maximum Location
X (cm): -3.387 Y (cm): 10

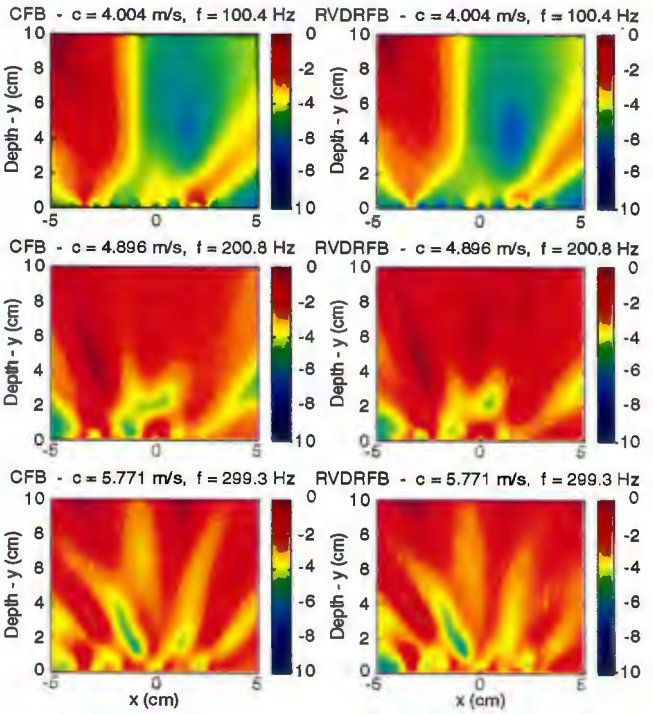

Figure A-43. Image of Data Set 908: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 908_16_1024.csd
Runname: 908_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.195
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.7259
RVDR Surface Maximum Location
X (cm): -3.387 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.839
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.05689
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.211
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.4272
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

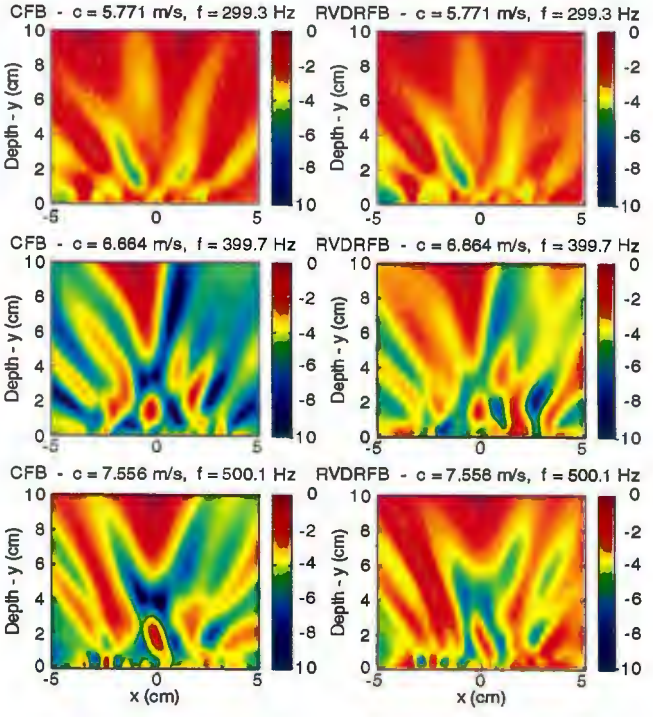

Figure A-44. Image for Data Set 908: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 908_32_512.csd
Runname: 908_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.863
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 3.949
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.492
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.101
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.258
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 1.28
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

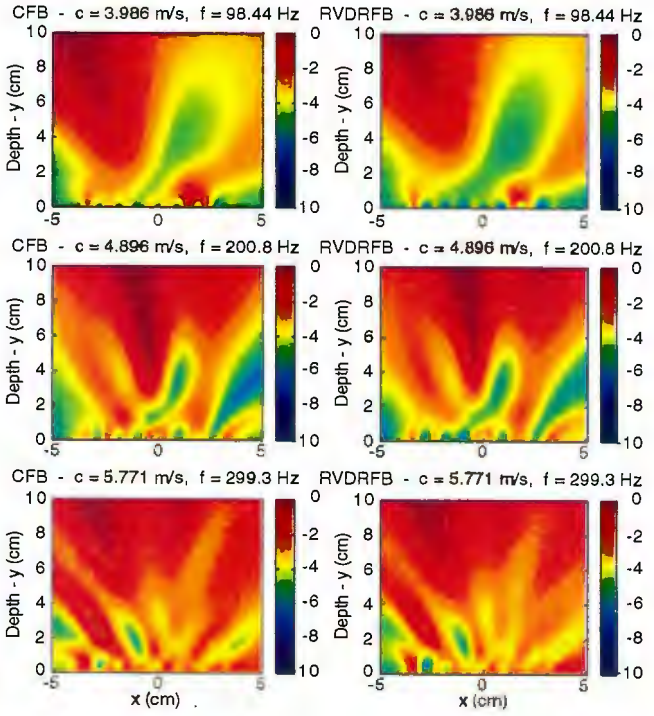

Figure A-45. Image of Data Set 908: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename. 908_32_512.csd
Runname: 908_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.258
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 1.28
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.047
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 0.2428
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.43
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): -0.1639
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

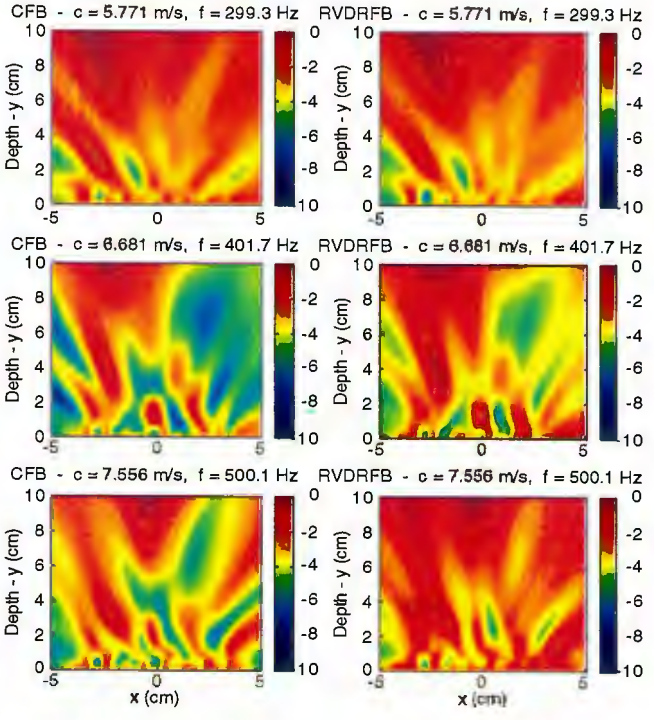

Figure A-46. Image of Data Set 908: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 908_64_256.csd
Runname: 908_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.491
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.437
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.469
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.514
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 1.892
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 0.987
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

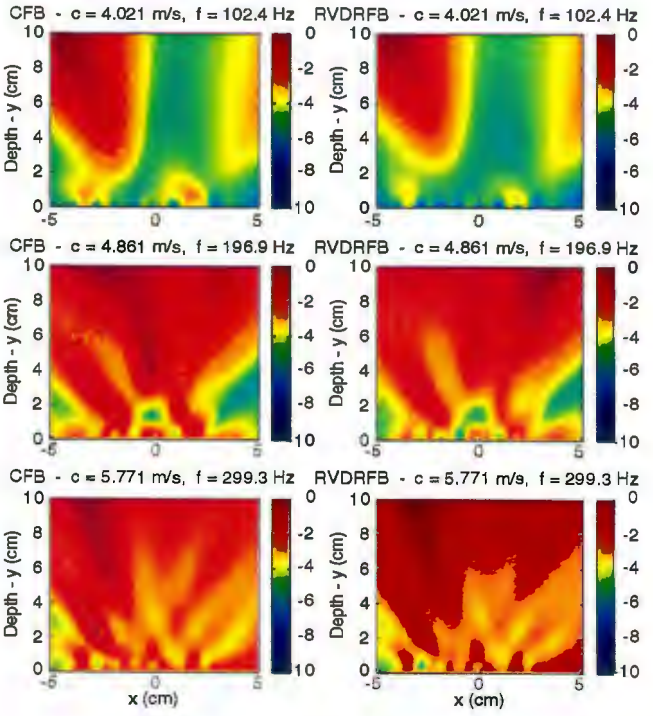

Figure A-47. Image of Data Set 908: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 908_64_256.csd
Runname: 908_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 1.892
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 0.987
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.785
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.7475
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.609
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.08587
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

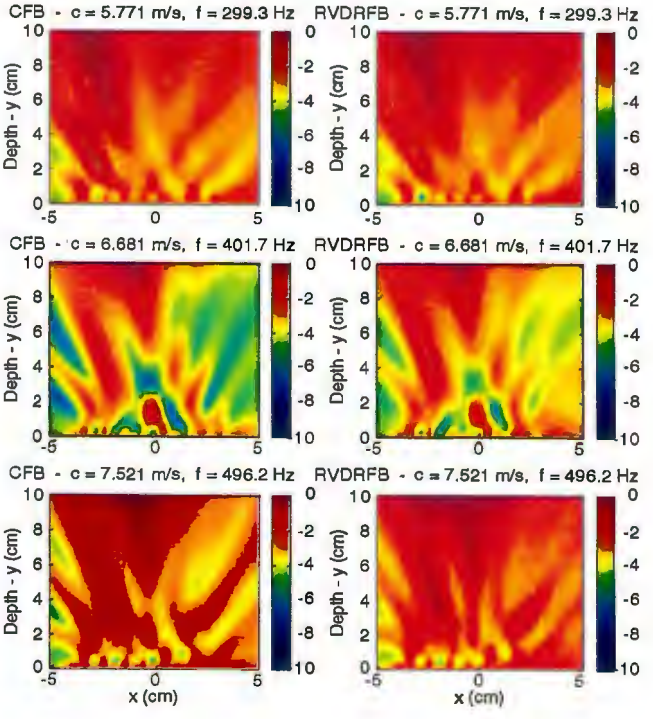

Figure A-48. Image of Data Set 908: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 909_16_1024.csd
Runname: 909_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.447
CFB Surface Maximum Location
X (cm): -5 Y (cm): 7.98
RVDR Surface Normalization (dB): 4.582
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.656
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 6.363
RVDR Surface Normalization (dB): 2.609
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 6.767

Frequency 300 Hz
CFB Surface Normalization (dB): 3.565
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.943
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

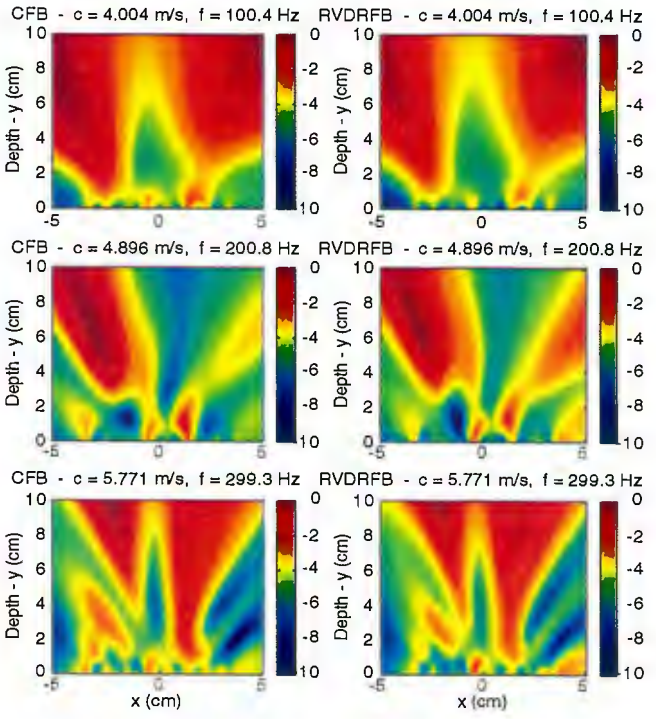

Figure A-49. Image of Data Sets 909: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 909_16_1024.csd
Runname: 909_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.565
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.943
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.163
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.2859
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.988
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.488
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

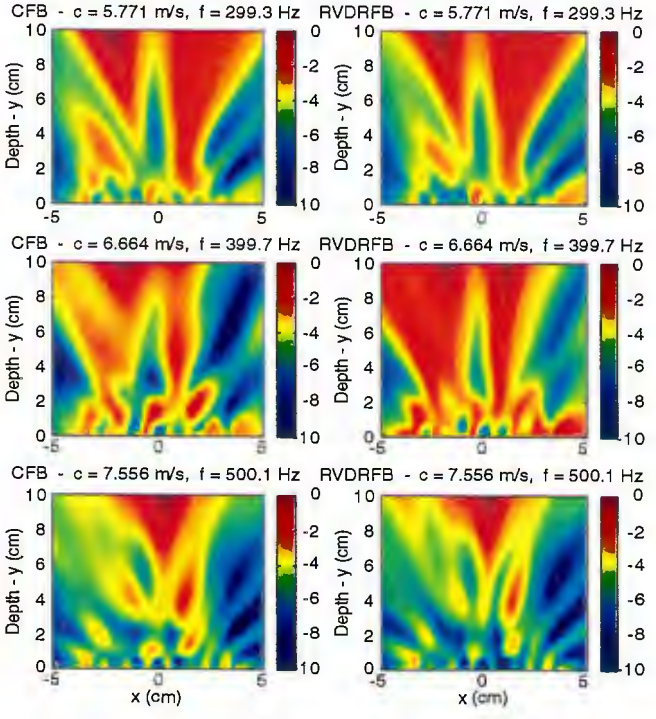

Figure A-50. Image of Data Set 909: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 909_32_512.csd
Runname: 909_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.03
CFB Surface Maximum Location
X (cm): -4.796 Y (cm): 10
RVDR Surface Normalization (dB): 4.061
RVDR Surface Maximum Location
X (cm): -4.796 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.188
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 5.555
RVDR Surface Normalization (dB): 2.859
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 5.959

Frequency 300 Hz
CFB Surface Normalization (dB): 3.345
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.825
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

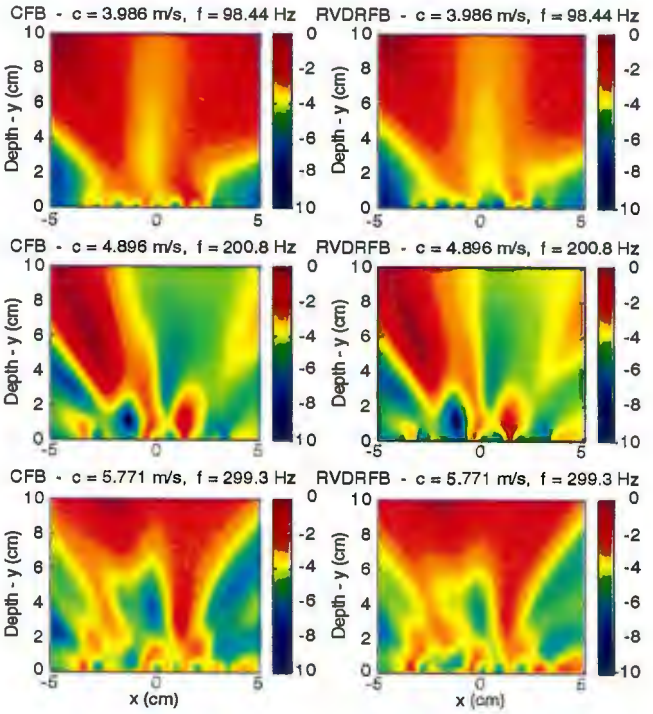

Figure A-51. Image of Data Set 909: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 909_32_512.csd
Runname: 909_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.345
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.825
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.727
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.159
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.321
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.445
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

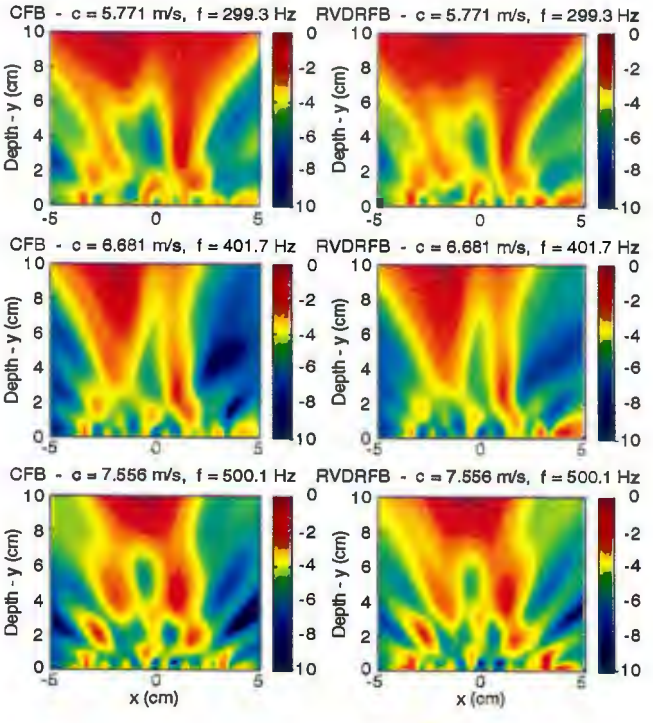

Figure A-52. Image of Data Set 909: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 909_64_256.csd
Runname: 909_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.948
CFB Surface Maximum Location
X (cm): 5 Y (cm): 10
RVDR Surface Normalization (dB): 4.132
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 9.798

Frequency 200 Hz
CFB Surface Normalization (dB): 5.255
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.289
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.998
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.786
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

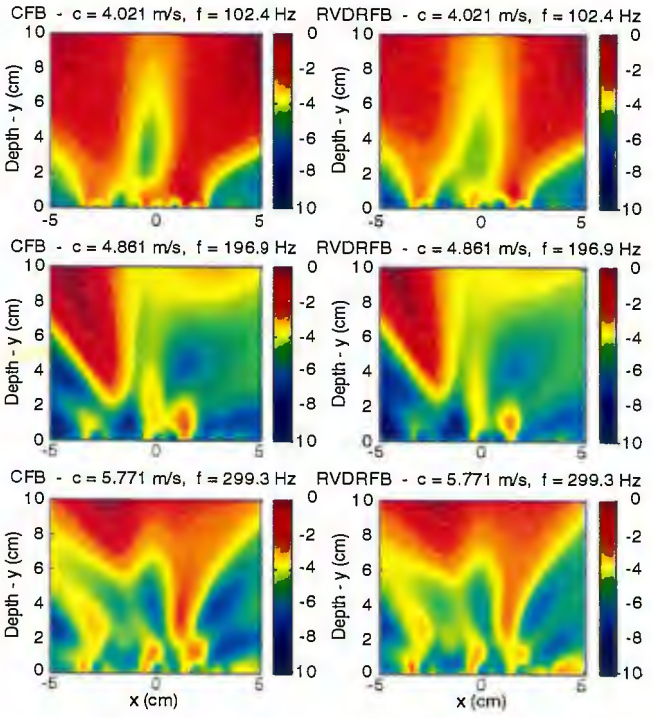

Figure A-53. Image of Data Set 909: 64 FFTs, 15 Channels Used At 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 909_64_256.csd
Runname: 909_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.998
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.786
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.837
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.122
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.595
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.248
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

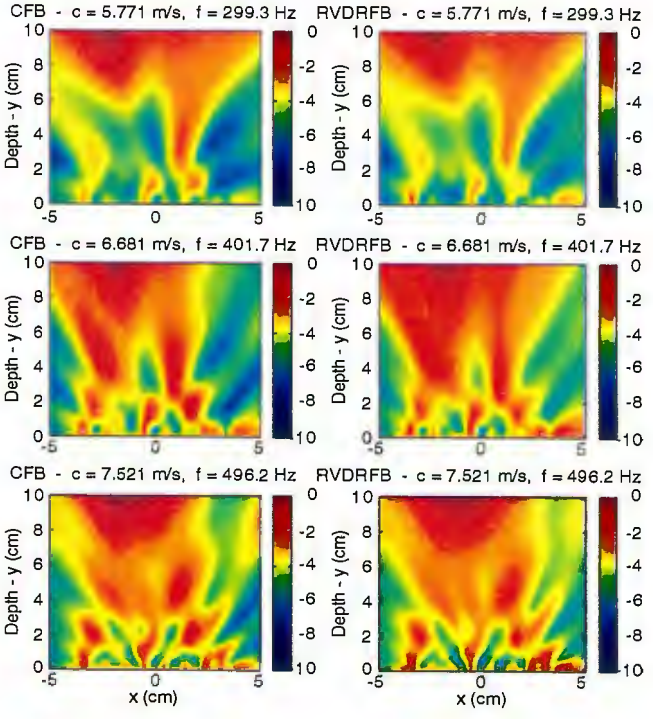

Figure A-54. Image of Data Set 909: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 910_16_1024.csd
Runname: 910_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.574
CFB Surface Maximum Location
X (cm): -4.796 Y (cm): 10
RVDR Surface Normalization (dB): 2.966
RVDR Surface Maximum Location
X (cm): -4.592 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.728
CFB Surface Maximum Location
X (cm): -4.592 Y (cm): 9.798
RVDR Surface Normalization (dB): 3.439
RVDR Surface Maximum Location
X (cm): -4.592 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.827
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.377
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

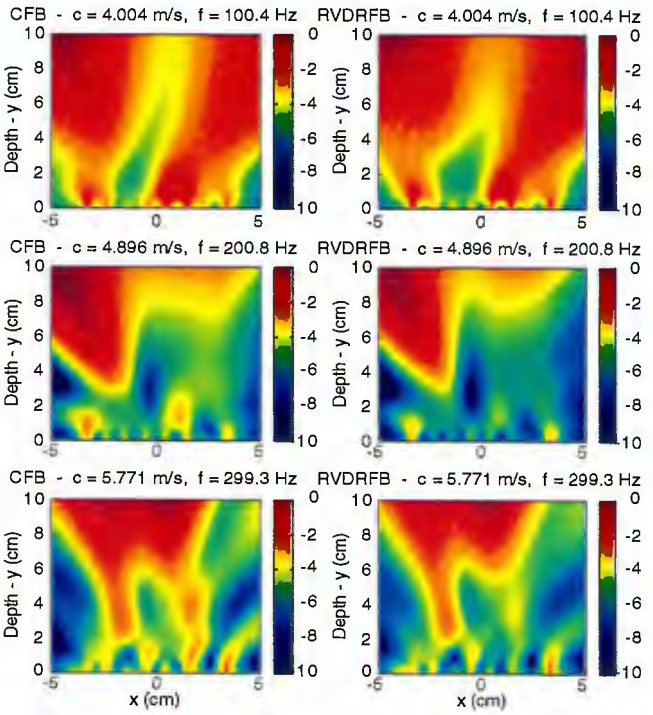

Figure A-55. Image of Data Set 910: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 910_16_1024.csd
Runname: 910_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.827
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.377
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.125
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.273
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.018
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): 1.127
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

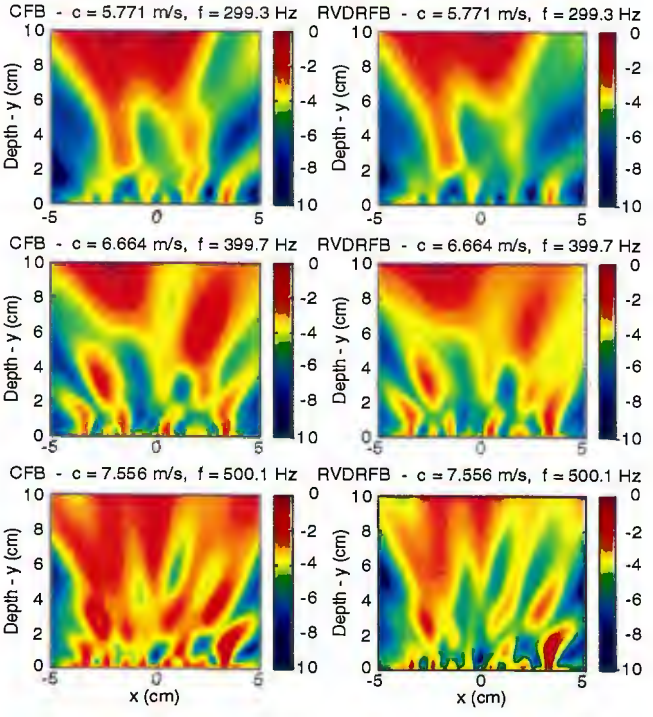

Figure A-56. Image of Data set 910: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 910_32_512.csd
Runname: 910_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.635
CFB Surface Maximum Location
X (cm): -5 Y (cm): 10
RVDR Surface Normalization (dB): 3.81
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.276
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 7.98
RVDR Surface Normalization (dB): 3.04
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 8.99

Frequency 300 Hz
CFB Surface Normalization (dB): 4.222
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.133
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

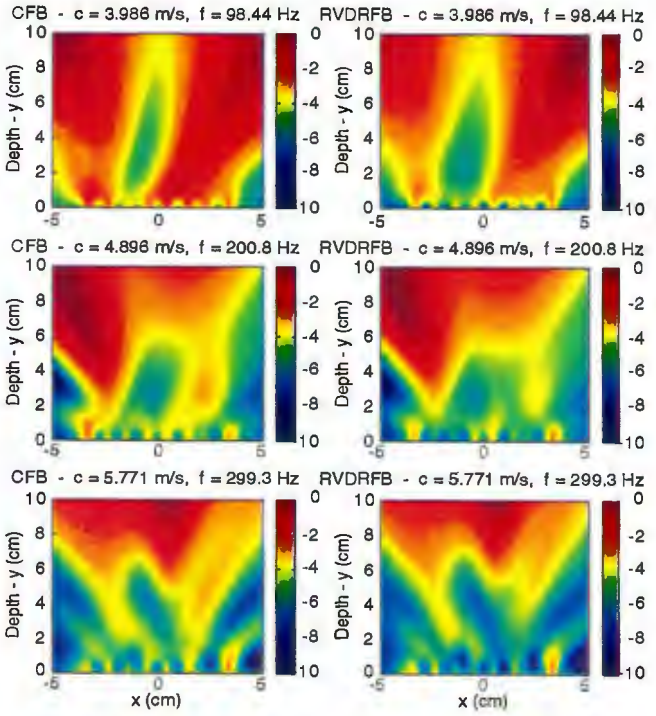

Figure A-57. Image of Data Set 910: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 910_32_512.csd
Runname: 910_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.222
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.133
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.099
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.063
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.036
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): 1.252
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

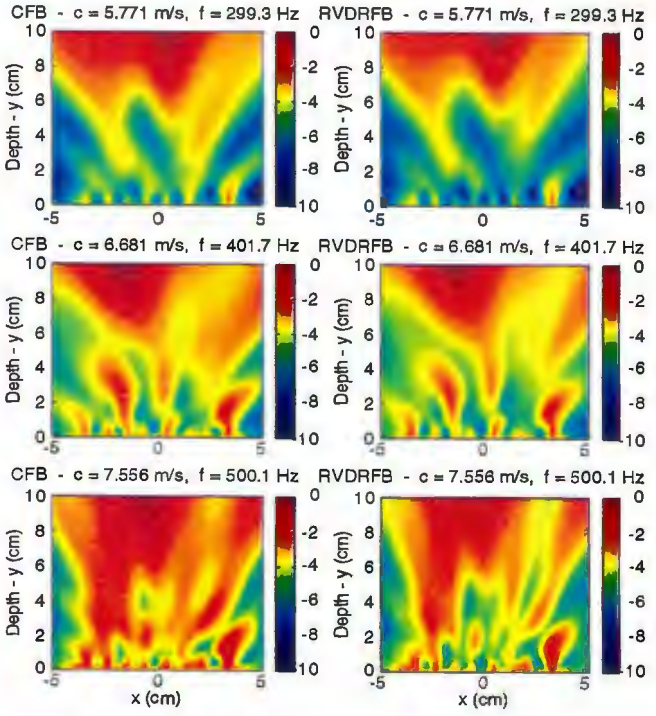

Figure A-58. Image of Data Set 910: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 910_64_256.csd
Runname: 910_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 8

Frequency 100 Hz
CFB Surface Normalization (dB): 4.459
CFB Surface Maximum Location
X (cm): -4.184 Y (cm): 10
RVDR Surface Normalization (dB): 3.374
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.747
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 2.071
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.182
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 3.138
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

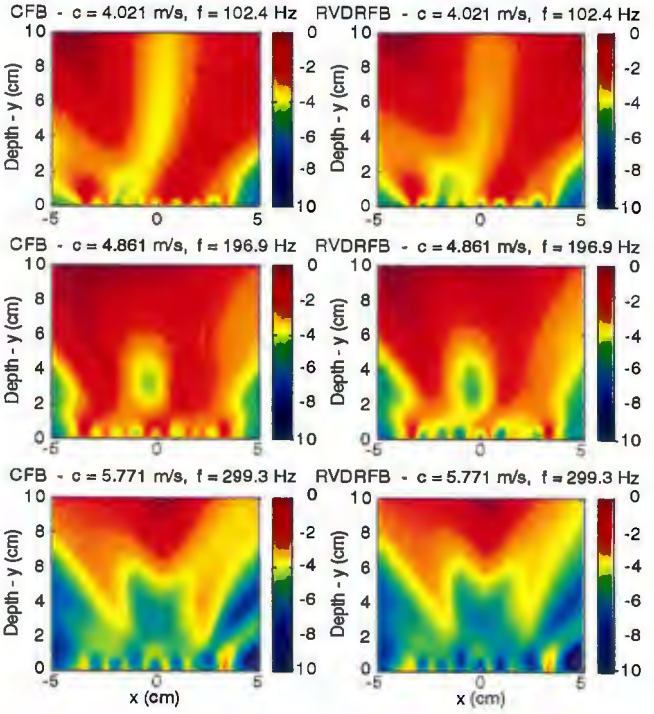

Figure A-59. Image of Data Set 910: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 910_64_256.csd
Runname: 910_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.182
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 3.138
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.834
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.048
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.854
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): 1.127
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

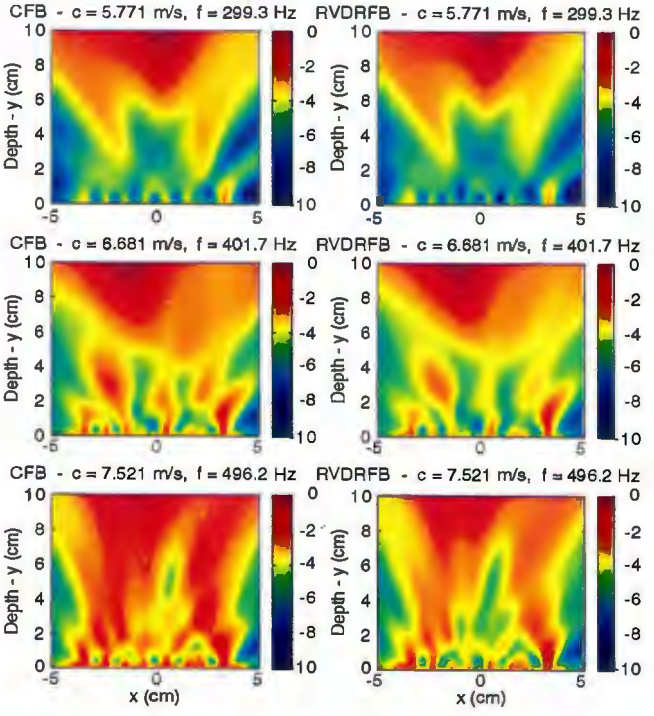

Figure A-60. Image of Data Set 910: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 911_16_1024.csd
Runname: 911_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.76
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 10
RVDR Surface Normalization (dB): 2.621
RVDR Surface Maximum Location
X (cm): 4.796 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.275
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.24
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.252
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 8.586
RVDR Surface Normalization (dB): 1.62
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

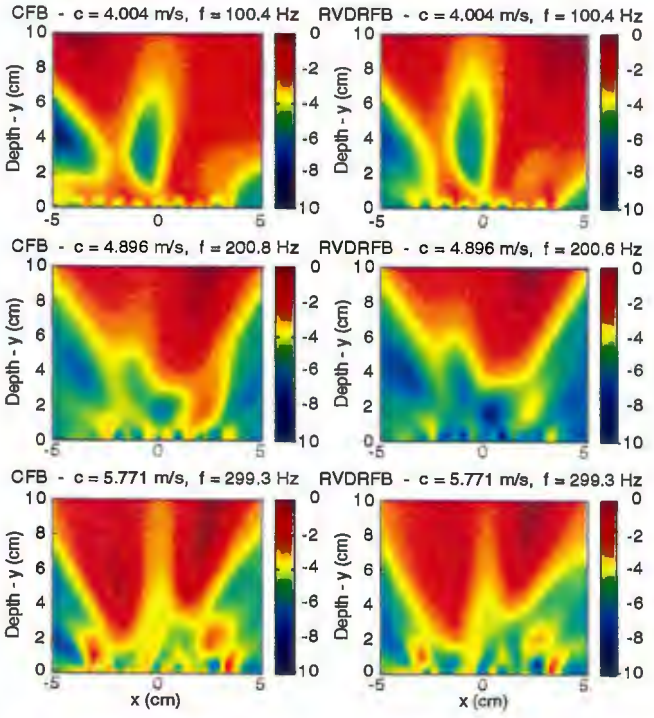

Figure A-61. Image of Data Set 911: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 911_16_1024.csd
Runname: 911_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.252
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 8.586
RVDR Surface Normalization (dB): 1.62
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.748
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.8892
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.6
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.8942
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

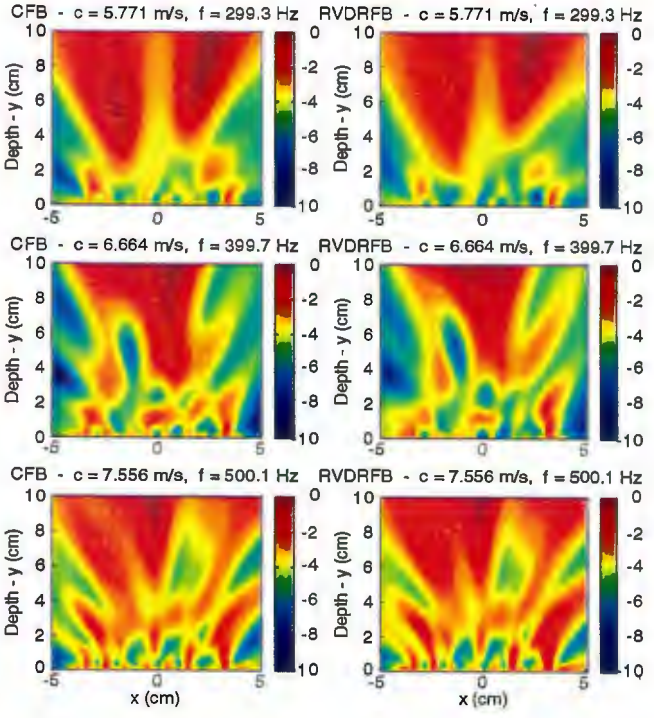

Figure A-62. Image of Data Set 911: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 911_32_512.csd
Runname: 911_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.675
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 10
RVDR Surface Normalization (dB): 3.645
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.826
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.798
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.335
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.99
RVDR Surface Maximum Location
X (cm): 2.755 Y (cm): 10

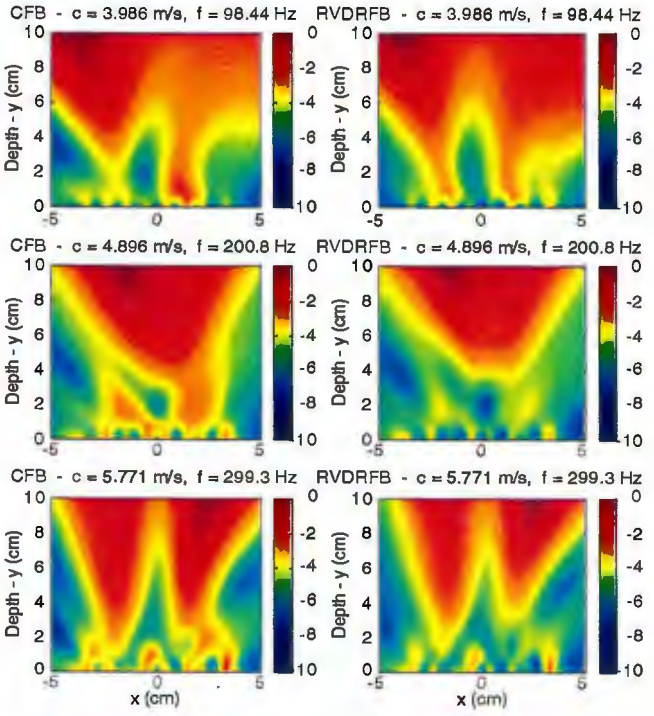

Figure A-63. Image of Data Set 911: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 911_32_512.csd
Runname: 911_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.335
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.99
RVDR Surface Maximum Location
X (cm): 2.755 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.48
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.7892
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

Frequency 500 Hz
CFB Surface Normalization (dB): 2.252
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.349
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

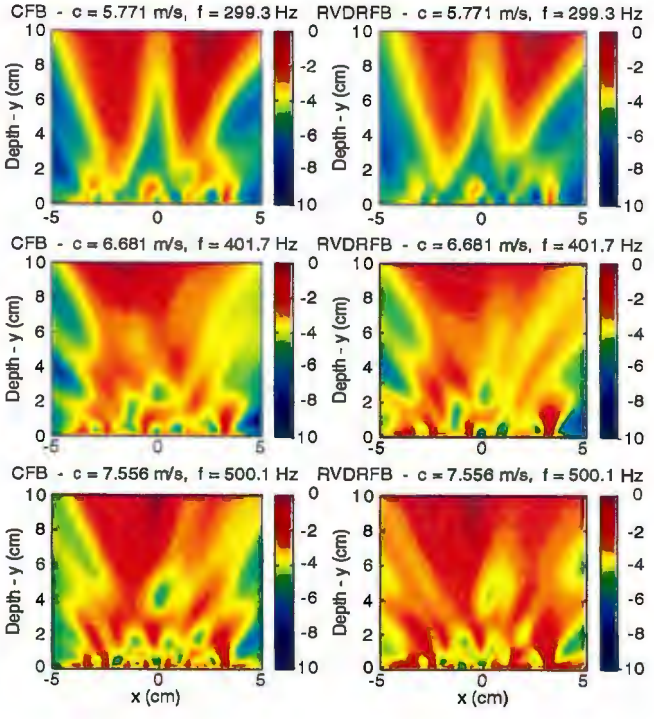

Figure A-64. Image of Data Set 911: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 911_64_256.csd
Runname: 911_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.997
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 4.266
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.082
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.988
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.637
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.196
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

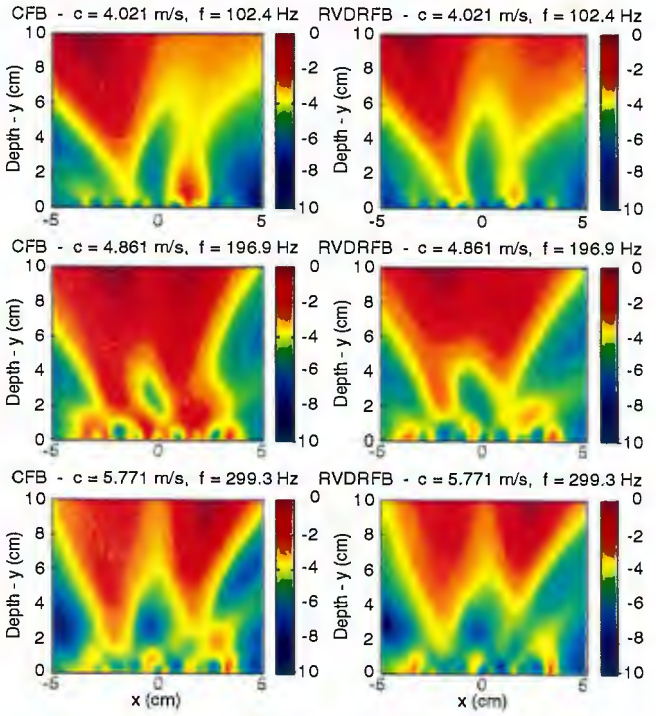

Figure A-65. Image of Data Set 911: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 911_64_256.csd
Runname: 911_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.637
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.196
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.008
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 0.894
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

Frequency 500 Hz
CFB Surface Normalization (dB): 2.248
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 0.5384
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

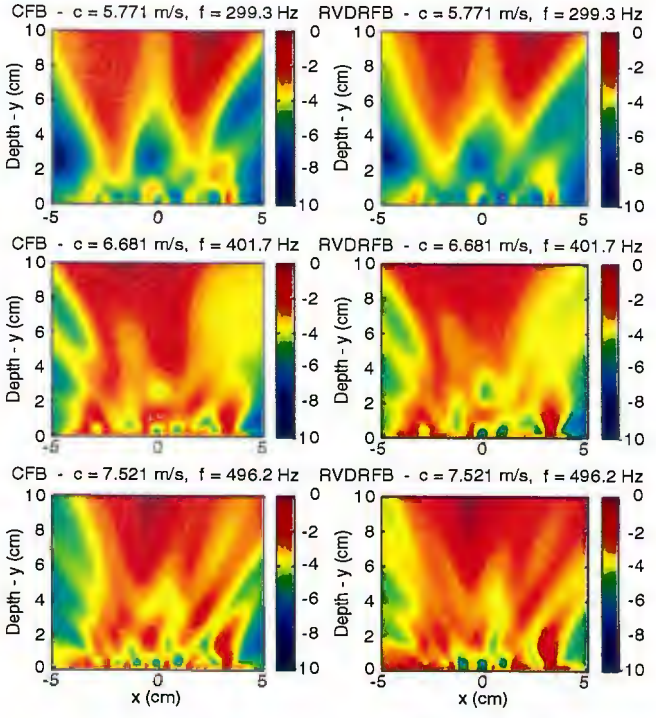

Figure A-66. Image of Data Set 911: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 912_16_1024.csd
Runname: 912_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.367
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 5.959
RVDR Surface Normalization (dB): 4.146
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 8.99

Frequency 200 Hz
CFB Surface Normalization (dB): 3.375
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.14
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.071
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.087
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

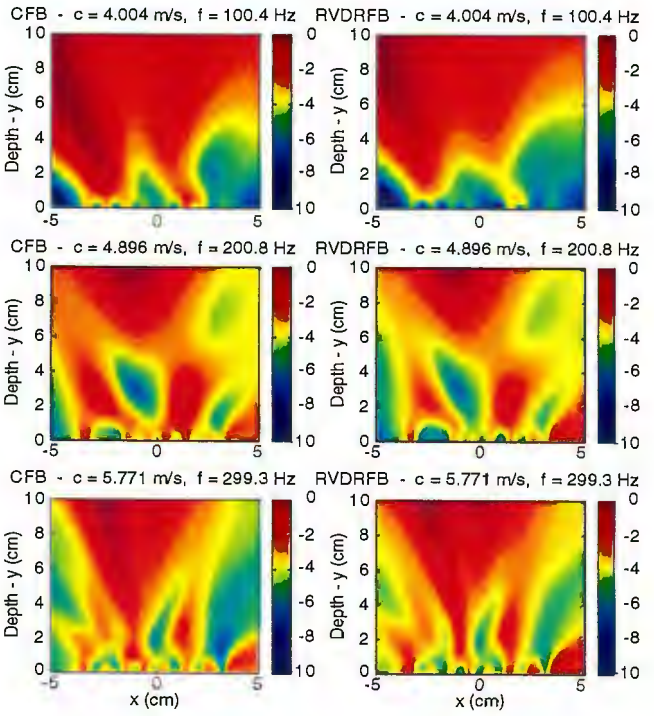

Figure A-67. Image of Data Set 912: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 912_16_1024.csd
Runname: 912_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.071
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.087
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.955
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.4341
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.817
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.442
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

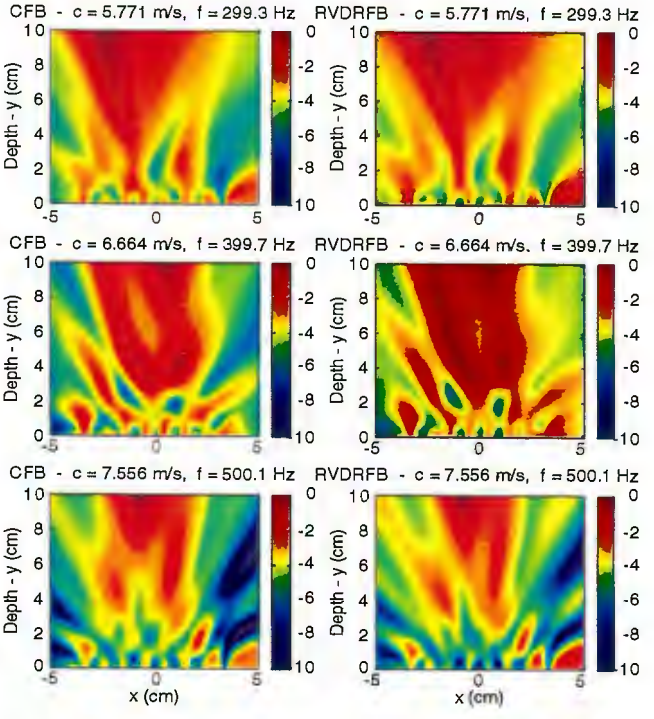

Figure A-68. Image of Data Set 912: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 912_32_512.csd
Runname: 912_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.268
CFB Surface Maximum Location
X (cm): -5 Y (cm): 7.98
RVDR Surface Normalization (dB): 5.16
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 8.384

Frequency 200 Hz
CFB Surface Normalization (dB): 2.514
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.387
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.741
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.5
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

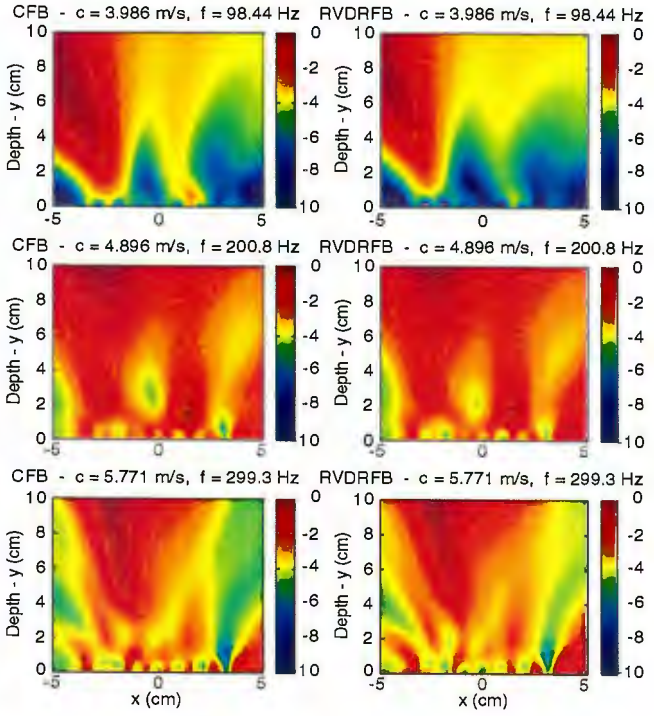

Figure A-69. Image of Data set 912: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 912_32_512.csd
Runname: 912_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.741
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.5
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.373
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 7.576
RVDR Surface Normalization (dB): 0.9476
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 8.788

Frequency 500 Hz
CFB Surface Normalization (dB): 3.335
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.061
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

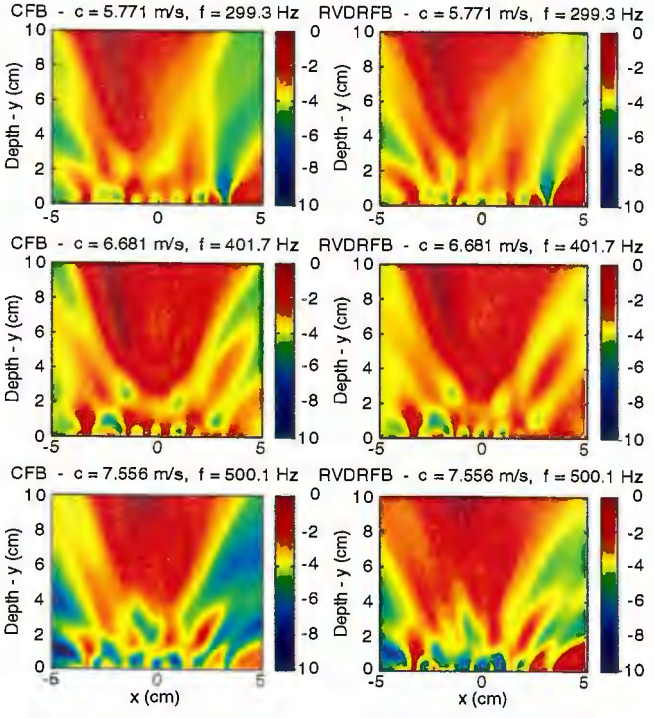

Figure A-70. Image of Data Set 912: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 912_64_256.csd
Runname: 912_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.888
CFB Surface Maximum Location
X (cm): -5 Y (cm): 9.596
RVDR Surface Normalization (dB): 5.167
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.097
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.231
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.518
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.295
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

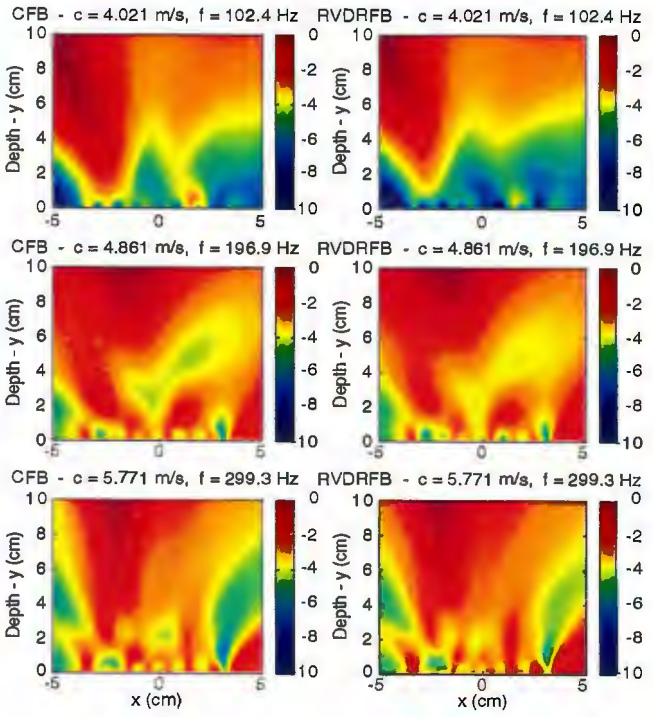

Figure A-71. Image of Data Set 912: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 912_64_256.csd
Runname: 912_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.518
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.295
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.81
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.268
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.734
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): -0.06953
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

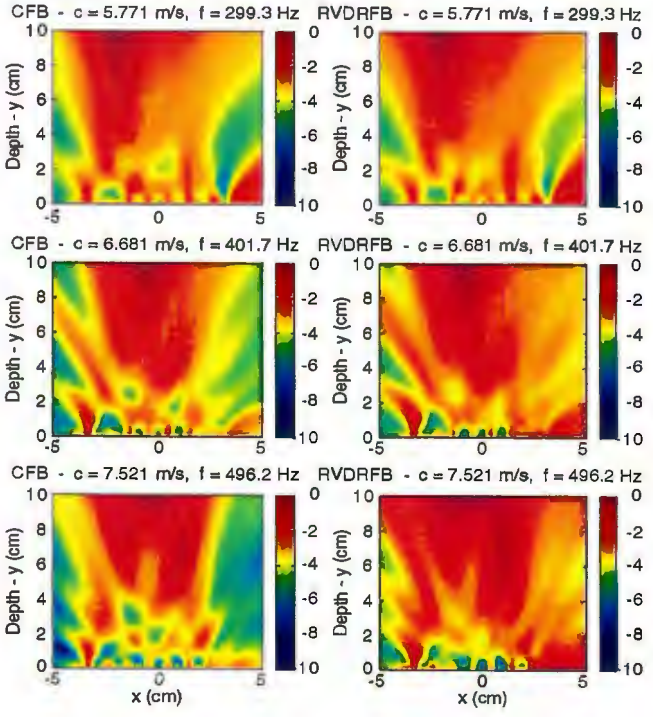

Figure A-72. Image of Data Set 912: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 913_16_1024.csd
Runname: 913_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.083
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.691
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.993
CFB Surface Maximum Location
X (cm): 4.388 Y (cm): 3.333
RVDR Surface Normalization (dB): 2.293
RVDR Surface Maximum Location
X (cm): 4.592 Y (cm): 3.535

Frequency 300 Hz
CFB Surface Normalization (dB): 2.468
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 0.5041
RVDR Surface Normalization (dB): 1.732
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 0.5041

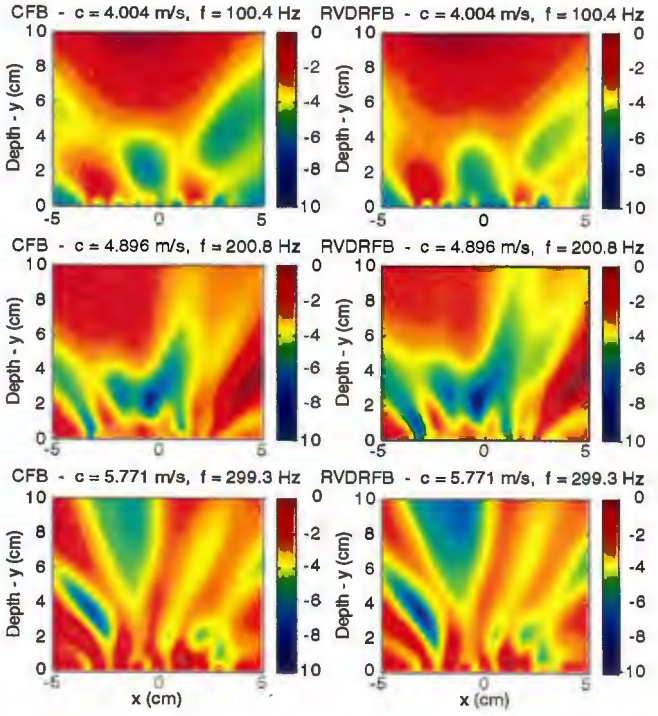

Figure A-73. Image of Data Set 913: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 913_16_1024.csd
Runname: 913_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.468
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 0.5041
RVDR Surface Normalization (dB): 1.732
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 0.5041

Frequency 400 Hz
CFB Surface Normalization (dB): 3.071
CFB Surface Maximum Location
X (cm): 3.163 Y (cm): 1.11
RVDR Surface Normalization (dB): 1.728
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 1.11

Frequency 500 Hz
CFB Surface Normalization (dB): 2.954
CFB Surface Maximum Location
X (cm): 4.592 Y (cm): 2.929
RVDR Surface Normalization (dB): 1.964
RVDR Surface Maximum Location
X (cm): 4.592 Y (cm): 2.727

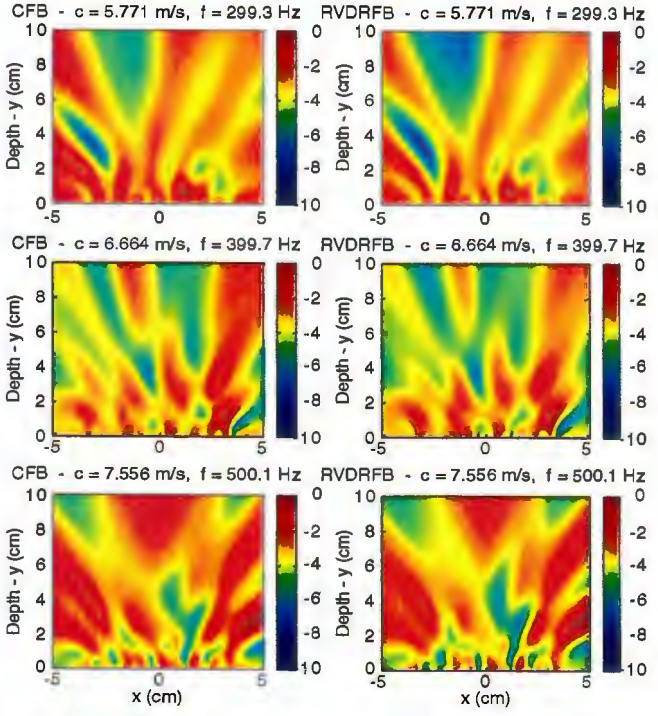

Figure A-74. Image of Data Set 913: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 913_32_512.csd
Runname: 913_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.751
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.285
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.584
CFB Surface Maximum Location
X (cm): 4.592 Y (cm): 2.929
RVDR Surface Normalization (dB): 1.991
RVDR Surface Maximum Location
X (cm): 4.796 Y (cm): 3.333

Frequency 300 Hz
CFB Surface Normalization (dB): 1.873
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 0.5041
RVDR Surface Normalization (dB): 1.288
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 0.5041

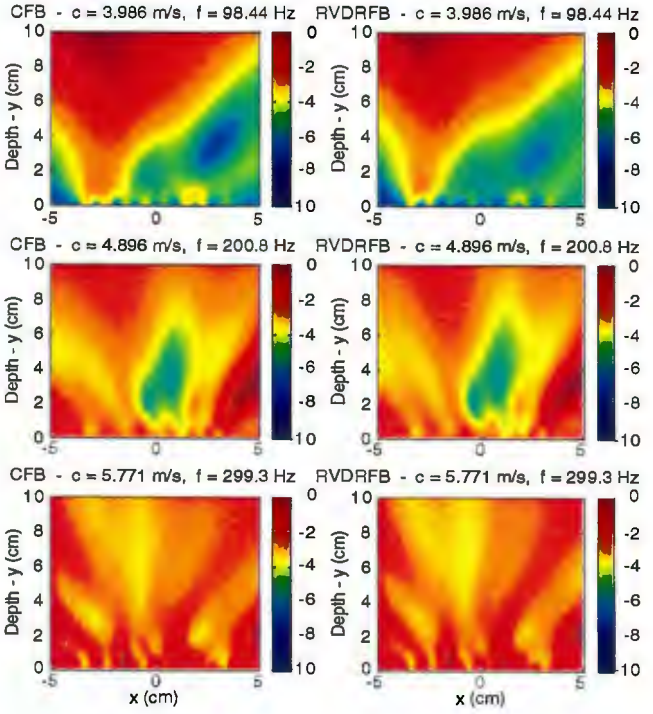

Figure A-75. Image of Data Set 913: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 913_32_512.csd
Runname: 913_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 1.873
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 0.5041
RVDR Surface Normalization (dB): 1.288
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 0.5041

Frequency 400 Hz
CFB Surface Normalization (dB): 1.858
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 0.5041
RVDR Surface Normalization (dB): 1.264
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 0.5041

Frequency 500 Hz
CFB Surface Normalization (dB): 2.081
CFB Surface Maximum Location
X (cm): 4.796 Y (cm): 3.131
RVDR Surface Normalization (dB): 1.504
RVDR Surface Maximum Location
X (cm): 4.796 Y (cm): 3.131

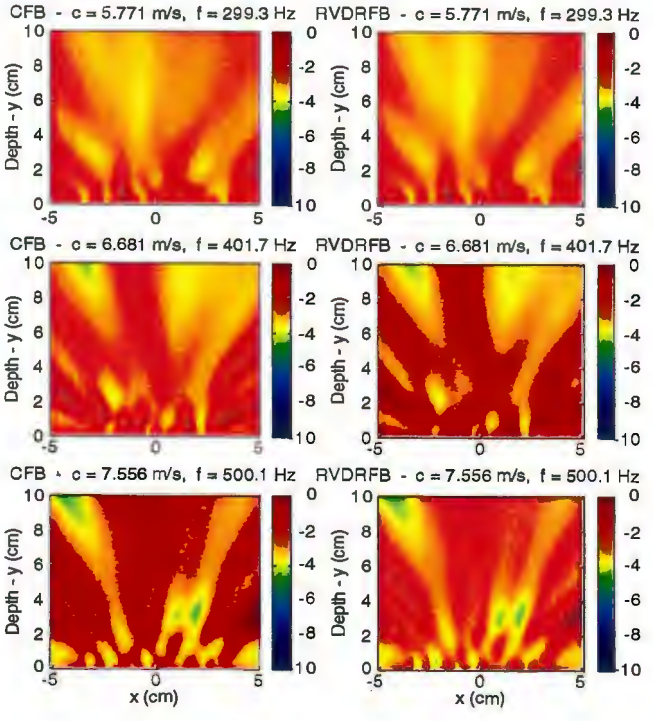

Figure A-76. Image of Data Set 913: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 913_64_256.csd
Runname: 913_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.336
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 4.169
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.291
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 1.918
RVDR Surface Normalization (dB): 1.862
RVDR Surface Maximum Location
X (cm): 3.98 Y (cm): 2.12

Frequency 300 Hz
CFB Surface Normalization (dB): 1.356
CFB Surface Maximum Location
X (cm): 5 Y (cm): 2.12
RVDR Surface Normalization (dB): 1.154
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 2.12

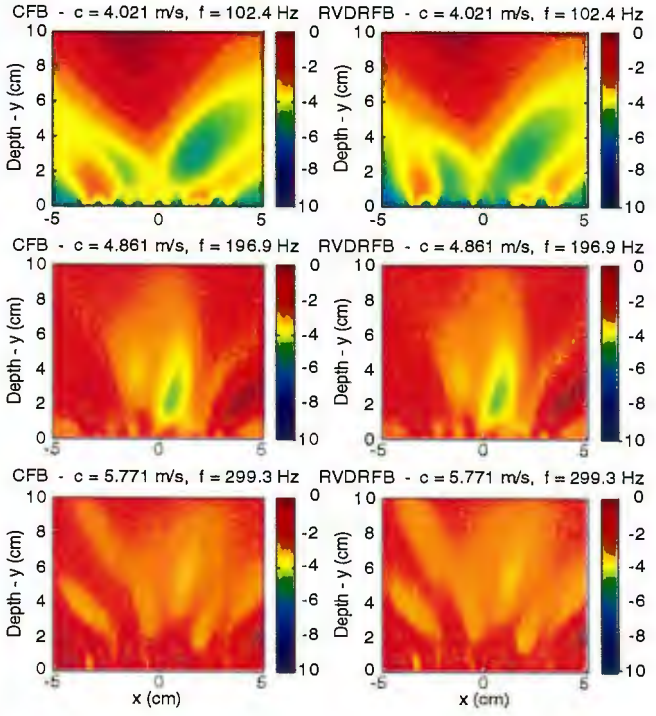

Figure A-77. Image of Data Set 913: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 913_64_256.csd
Runname: 913_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 1.356
CFB Surface Maximum Location
X (cm): 5 Y (cm): 2.12
RVDR Surface Normalization (dB): 1.154
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 2.12

Frequency 400 Hz
CFB Surface Normalization (dB): 1.897
CFB Surface Maximum Location
X (cm): 3.163 Y (cm): 0.9082
RVDR Surface Normalization (dB): 1.521
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 1.11

Frequency 500 Hz
CFB Surface Normalization (dB): 1.883
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 1.918
RVDR Surface Normalization (dB): 1.401
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 1.918

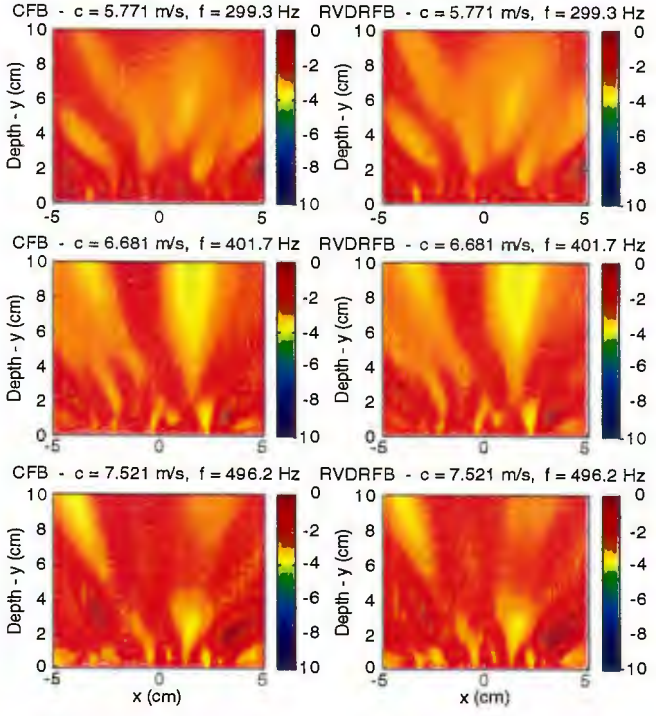

Figure A-78. Image of Data Set 913: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 914_16_1024.csd
Runname: 914_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.477
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 5.959
RVDR Surface Normalization (dB): 4.031
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 7.778

Frequency 200 Hz
CFB Surface Normalization (dB): 3.784
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 1.23
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.142
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.3596
RVDR Surface Maximum Location
X (cm): 0.9164 Y (cm): 10

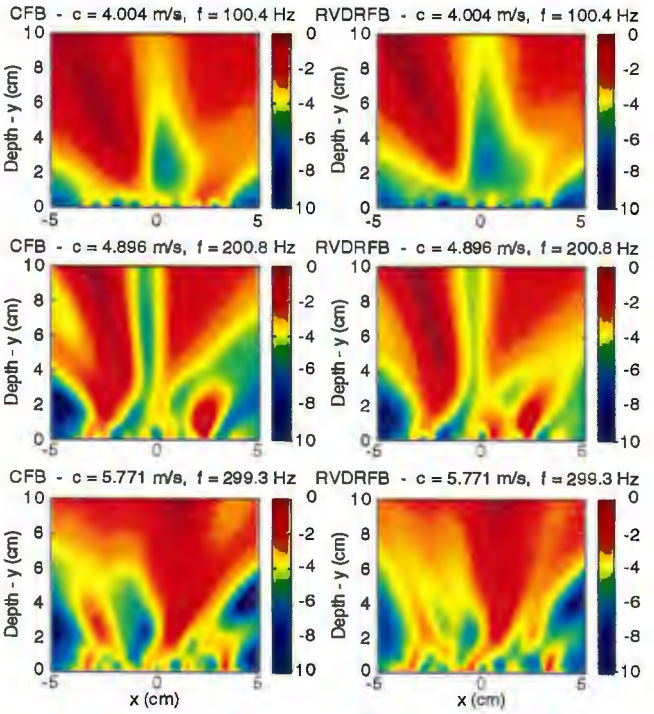

Figure A-79. Image of Data Set 914: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 914_16_1024.csd
Runname: 914_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.142
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.3596
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.986
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.238
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.894
CFB Surface Maximum Location
X (cm): 3.163 Y (cm): 1.312
RVDR Surface Normalization (dB): -0.1284
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 1.312

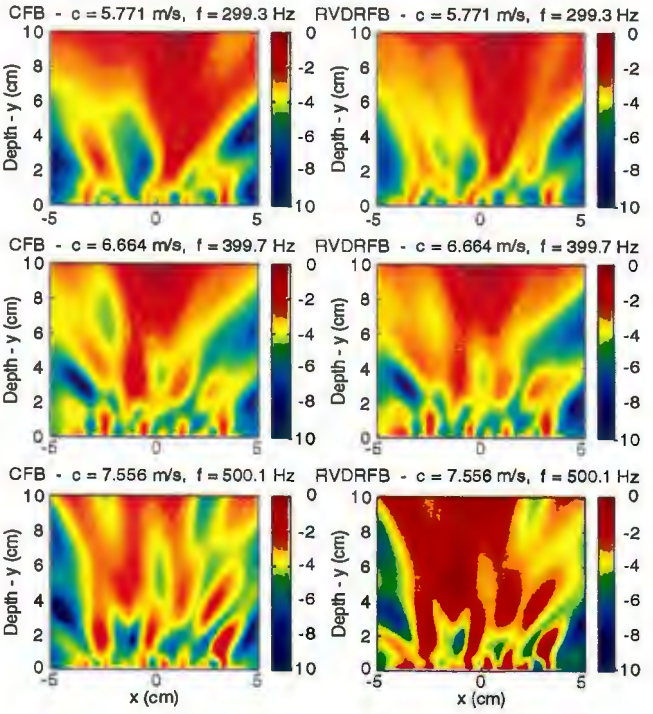

Figure A-80. Image of Data Set 914: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 914_32_512.csd
Runname: 914_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.992
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 4.747
RVDR Surface Normalization (dB): 3.815
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 5.959

Frequency 200 Hz
CFB Surface Normalization (dB): 3.831
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 1.973
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.746
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.573
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

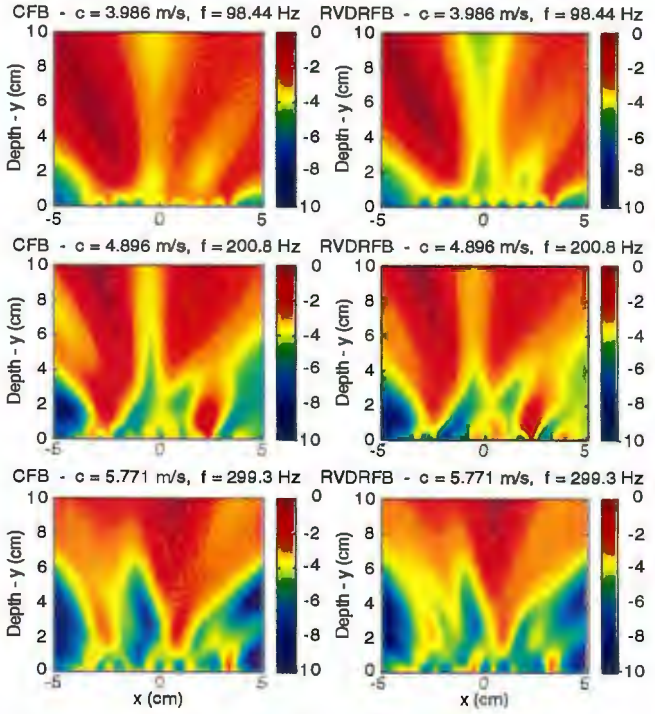

Figure A-81. Image of Data Set 914: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 914_32_512.csd
Runname: 914_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.746
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.573
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.267
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.9957
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.647
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.167
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

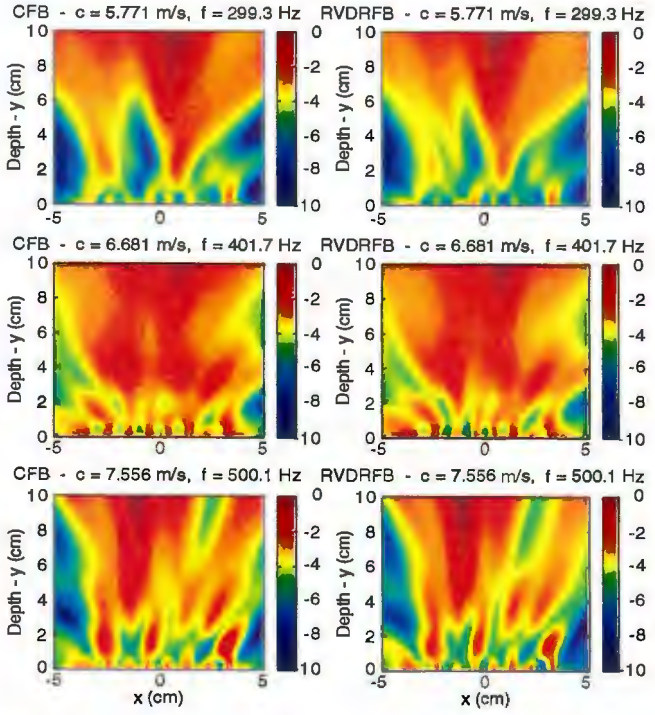

Figure A-82. Image of Data Set 914: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 914_64_256.csd
Runname: 914_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.235
CFB Surface Maximum Location
X (cm): 4.388 Y (cm): 10
RVDR Surface Normalization (dB): 3.232
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.108
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.065
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.225
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.11
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

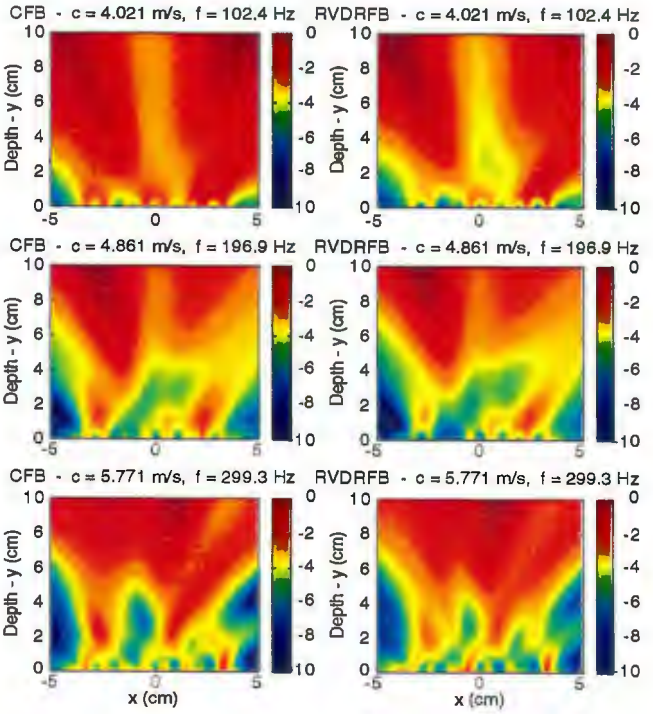

Figure A-83. Image of Data Set 914: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 914_64_256.csd
Runname: 914_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.225
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.11
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.576
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.337
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.742
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.188
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

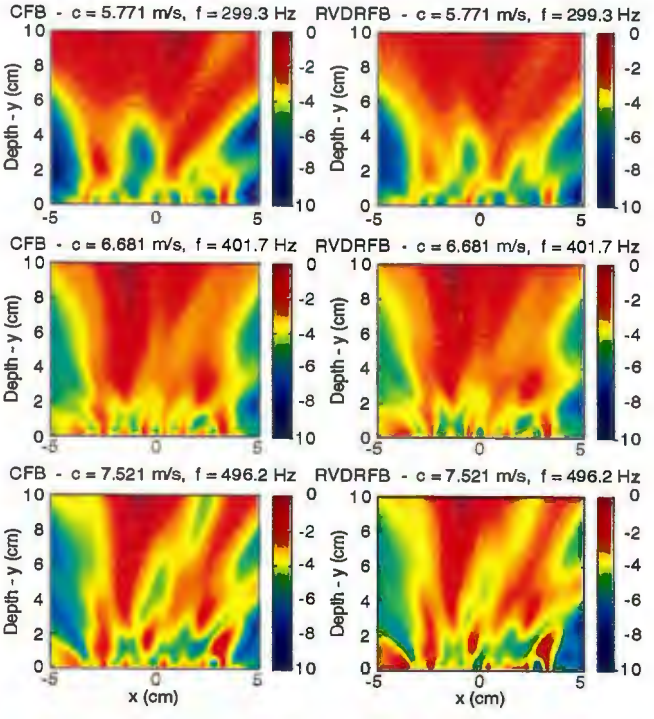

Figure A-84. Image of Data Set 914: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 915_16_1024.csd
Runname: 915_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.761
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.235
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.186
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 6.363
RVDR Surface Normalization (dB): 2.632
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 6.161

Frequency 300 Hz
CFB Surface Normalization (dB): 2.65
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 1.206
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

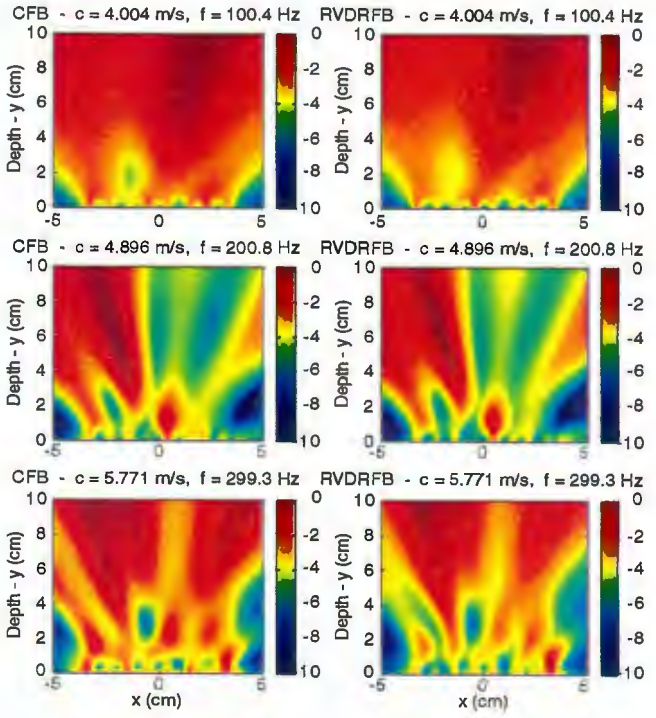

Figure A-85. Image of Data Set 915: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 915_16_1024.csd
Runname: 915_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.65
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 1.206
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.186
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.921
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.474
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.884
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

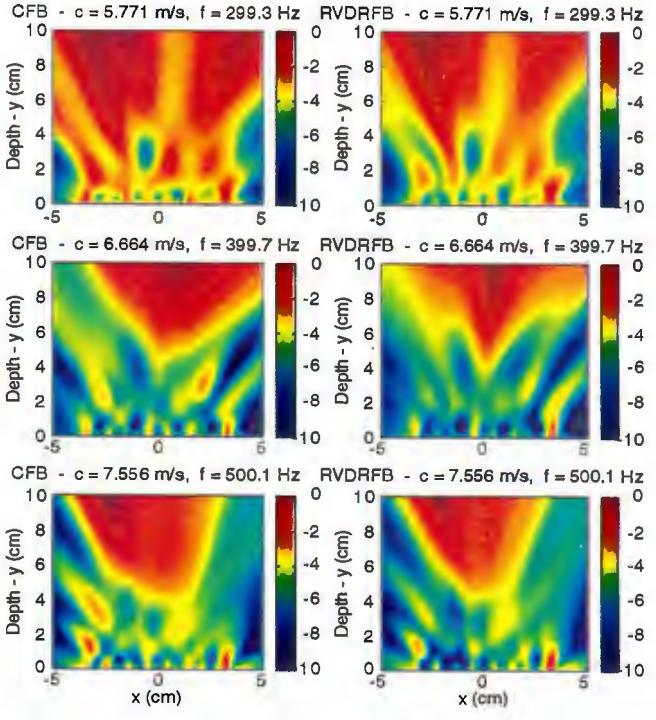

Figure A-86. Image of Data Set 915: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 400 Hz (Bottom)

Filename: 915_32_512.csd
Runname: 915_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.05
CFB Surface Maximum Location
X (cm): -4.184 Y (cm): 10
RVDR Surface Normalization (dB): 4.278
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.748
CFB Surface Maximum Location
X (cm): -4.592 Y (cm): 10
RVDR Surface Normalization (dB): 2.894
RVDR Surface Maximum Location
X (cm): -4.592 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.071
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.769
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

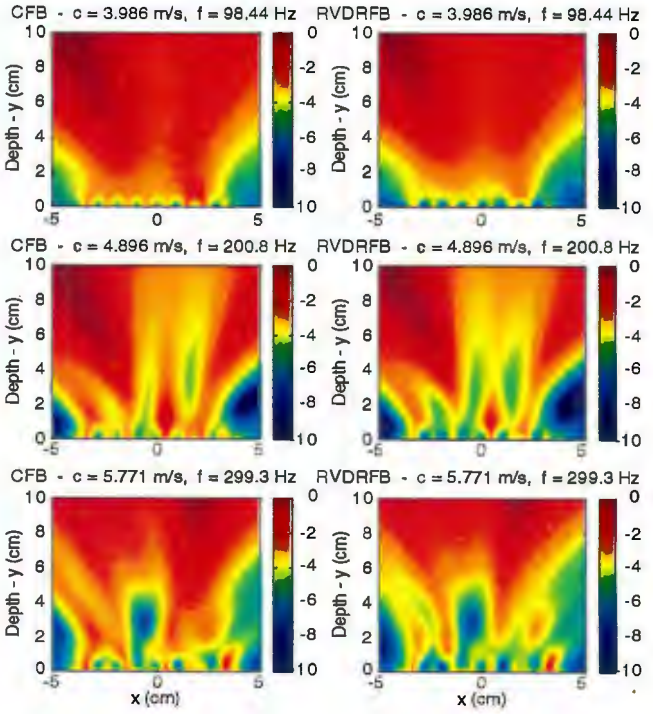

Figure A-87. Image of Data Set 915: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 915_32_512.csd
Runname: 915_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.071
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.769
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.687
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.713
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.637
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.67
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

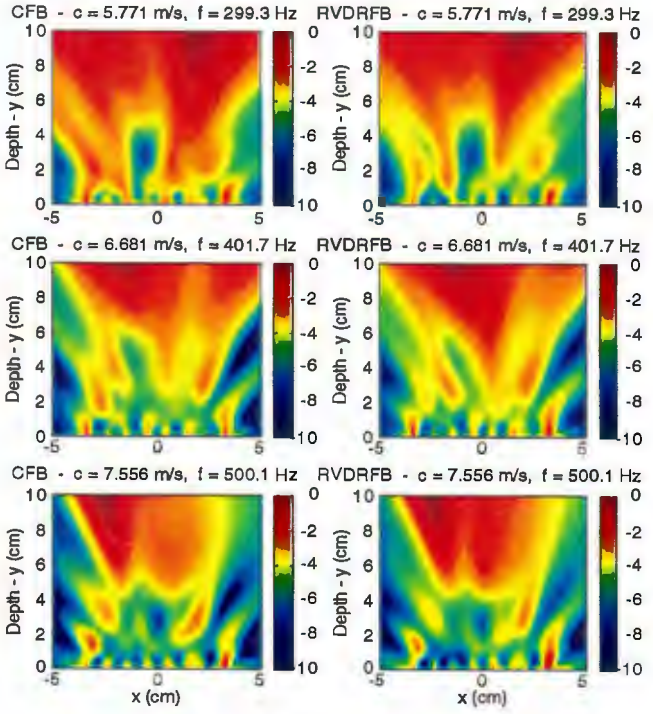

Figure A-88. Image of Data Set 915: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 915_64_256.csd
Runname: 915_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.931
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.084
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.126
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 9.394
RVDR Surface Normalization (dB): 3.129
RVDR Surface Maximum Location
X (cm): -3.778 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.27
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 1.767
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

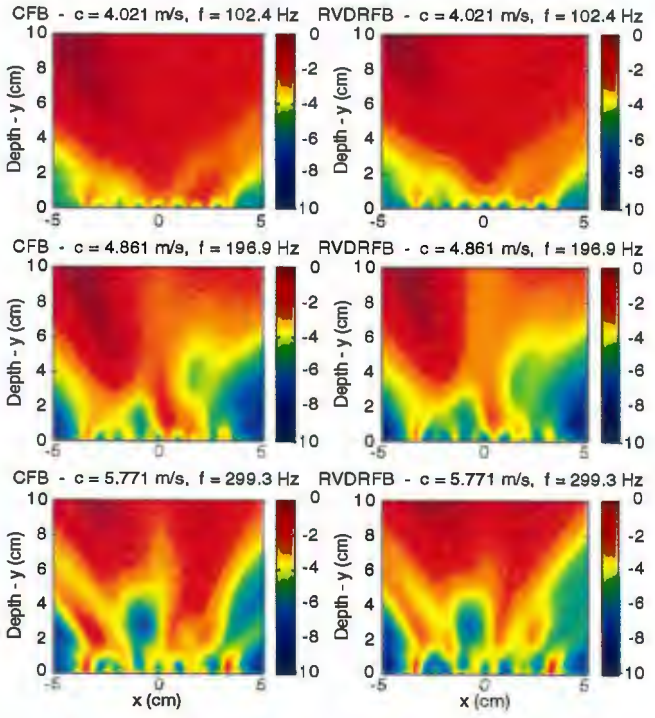

Figure A-89. Image of Data Set 915: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 915_64_256.csd
Runname: 915_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.27
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 1.767
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.174
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.822
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.849
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.174
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

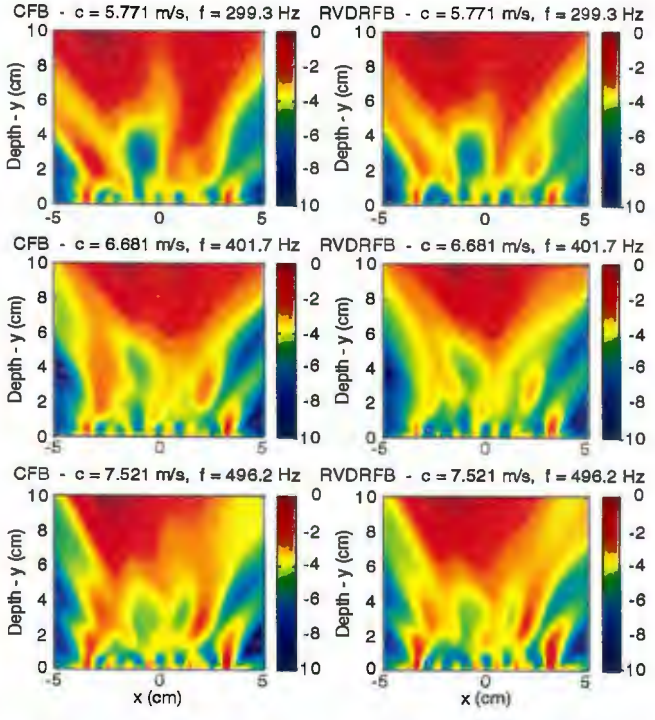

Figure A-90. Image of Data Set 915: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 916_16_1024.csd
Runname: 916_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.854
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 10
RVDR Surface Normalization (dB): 3.454
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.516
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.915
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.698
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 0.7941
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

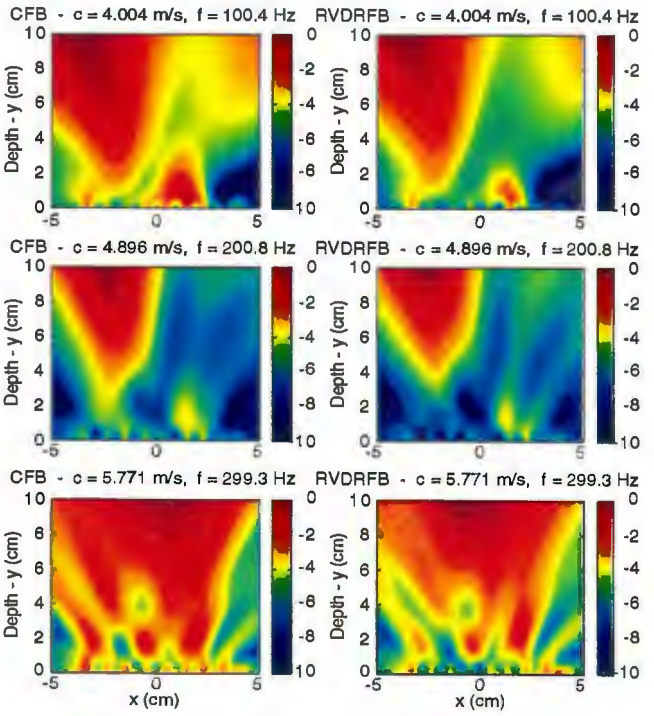

Figure A-91. Image of Data Set 916: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 916_16_1024.csd
Runname: 916_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.696
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 0.7941
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.669
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 0.8612
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.543
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.25
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

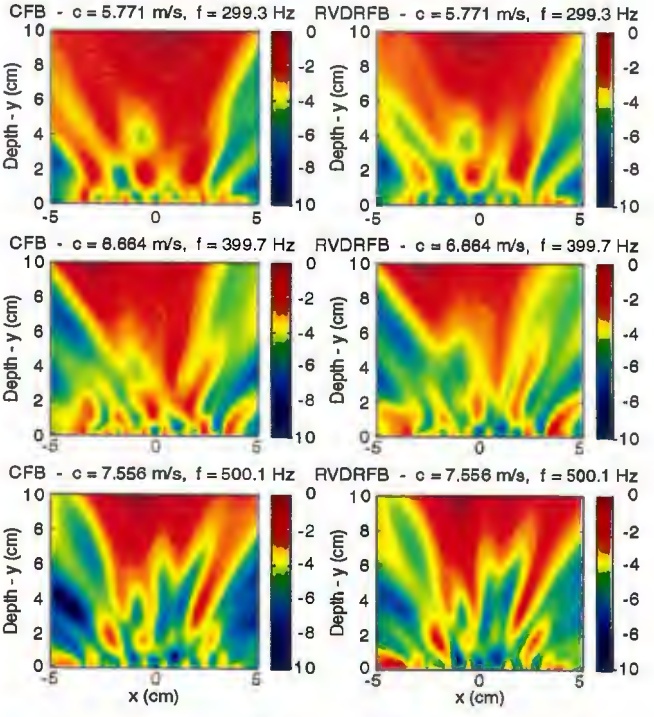

Figure A-92. Image of Data Set 916: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 916_32_512.csd
Runname: 916_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 3.648
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 2.486
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.2
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.904
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.333
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.519
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

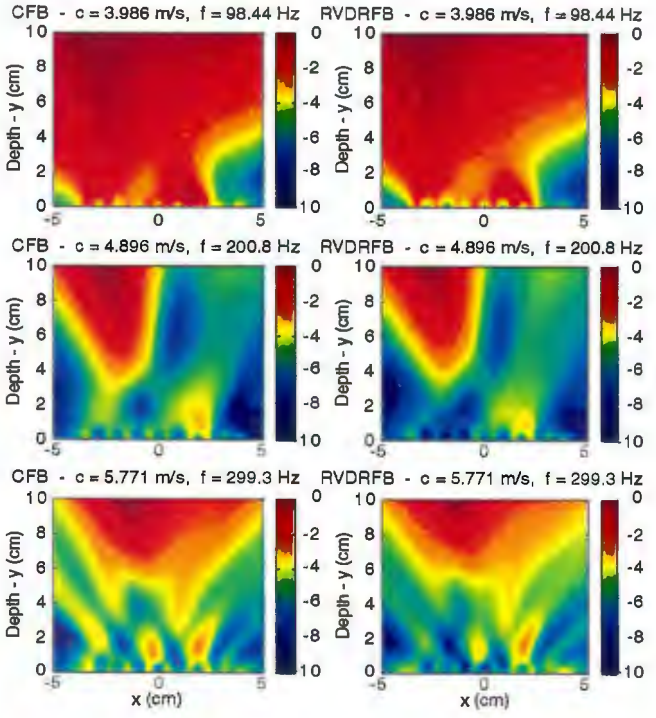

Figure A-93. Image of Data Set 916: 32 FFTs, 15 Channels Used at 100 Hz (Top) 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 916_32_512.csd
Runname: 916_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.333
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.519
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.887
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.455
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.866
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.9102
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

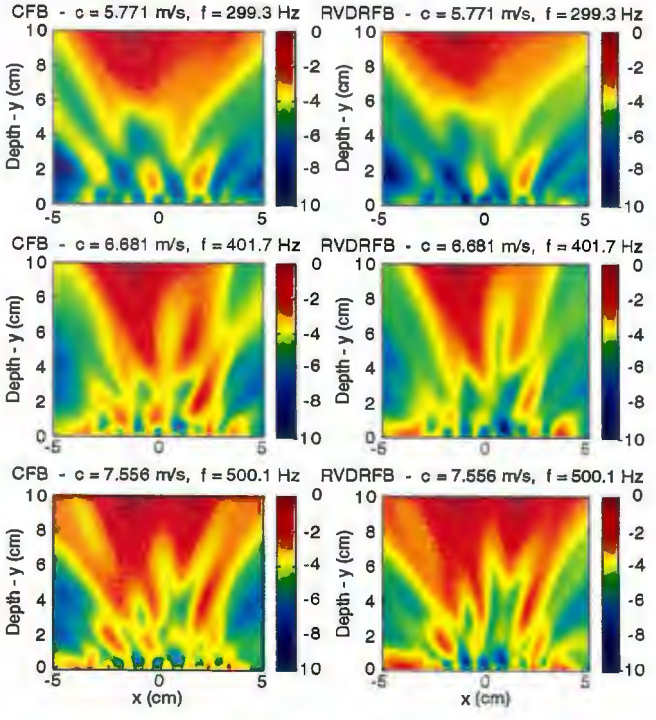

Figure A-94. Image of Data Set 916: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 916_64_256.csd
Runname: 916_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.293
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 4.335
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.104
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.919
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.872
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.55
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

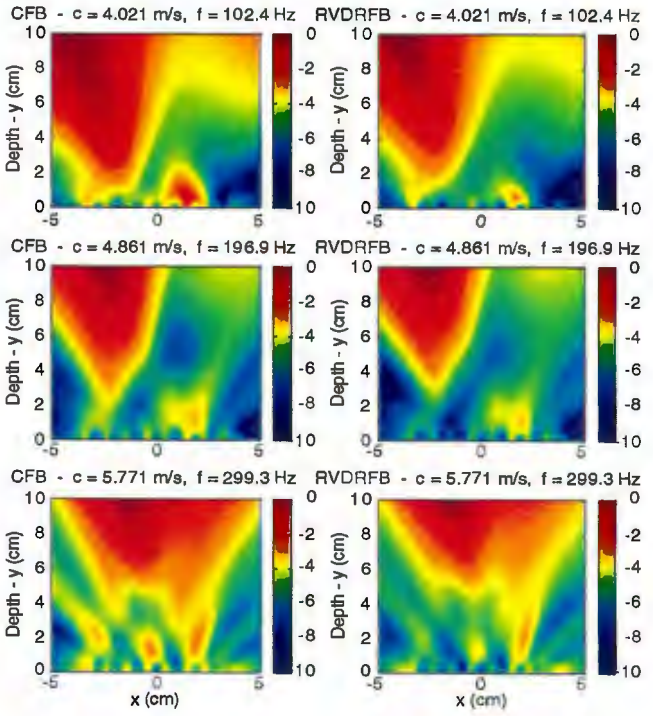

Figure A-95. Image of Data Set 916: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 916_64_256.csd
Runname: 916_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.872
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.55
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.405
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.321
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.142
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.411
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

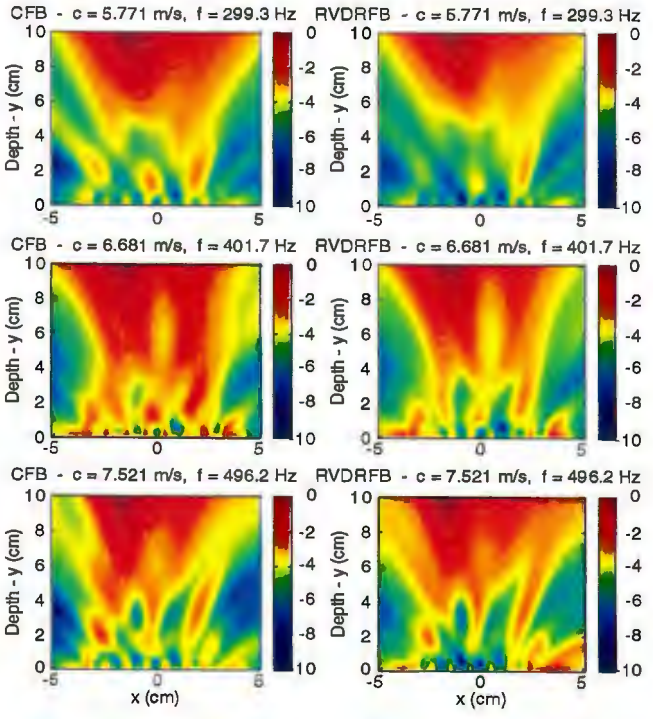

Figure A-96. Image of Data Set 916: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 917_16_1024.csd
Runname: 917_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 3.864
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 1.514
RVDR Surface Normalization (dB): 2.007
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.318
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 1.463
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 9.596

Frequency 300 Hz
CFB Surface Normalization (dB): 3.103
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.371
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

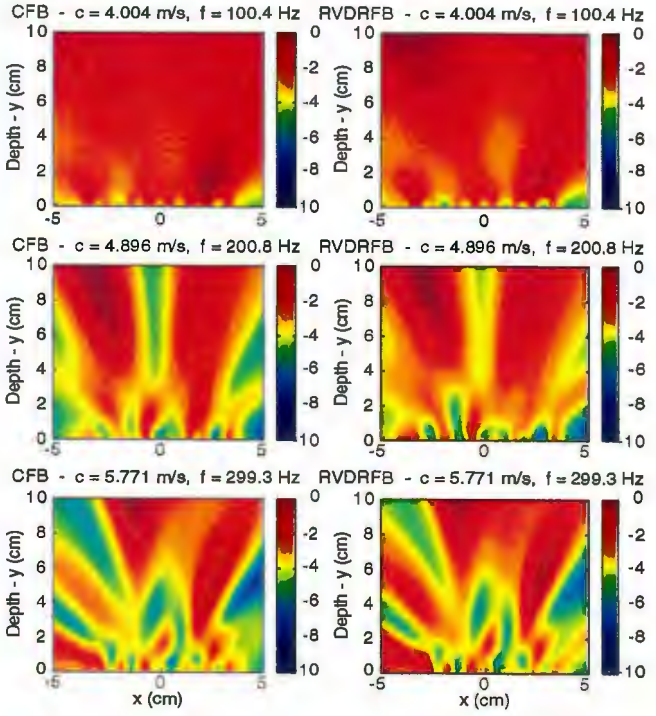

Figure A-97. Image of Data Set 917: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 917_16_1024.csd
Runname: 917_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.103
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.371
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 1.49
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): -0.1246
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 0.9082

Frequency 500 Hz
CFB Surface Normalization (dB): 2.237
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 2.322
RVDR Surface Normalization (dB): -0.3906
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 2.322

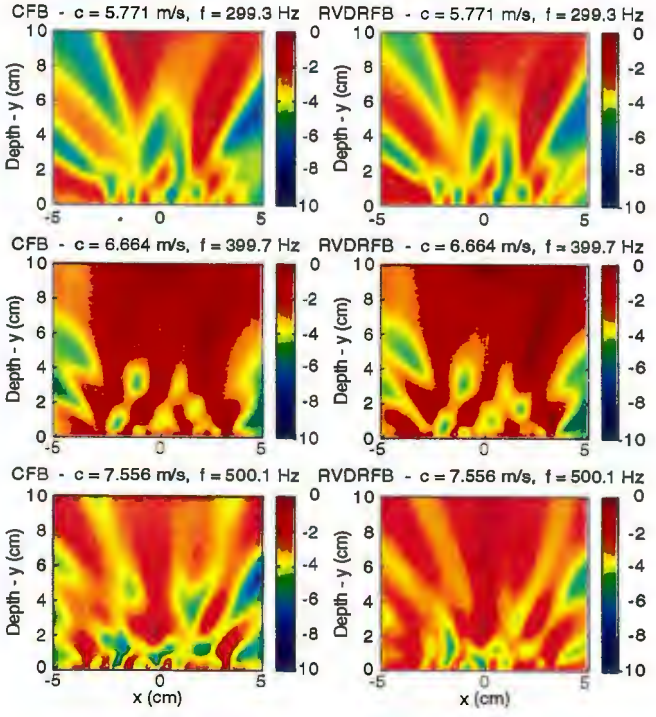

Figure A-98. Image of Data Set 917: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 917_32_512.csd
Runname: 917_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.936
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.834
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.424
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.654
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 1.353
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.934
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.814
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

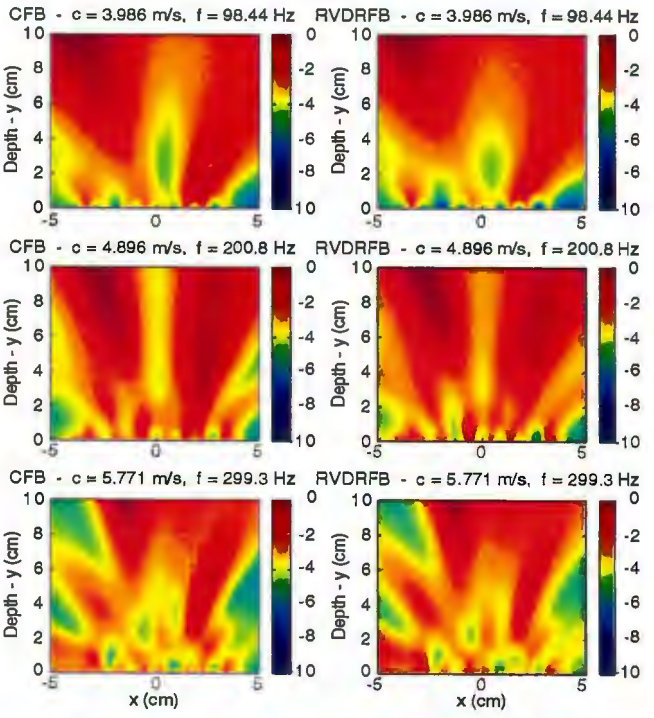

Figure A-99. Image of Data Set 917: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 917_32_512.csd
Runname: 917_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.934
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.814
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.008
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 6.363
RVDR Surface Normalization (dB): 0.5382
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 6.767

Frequency 500 Hz
CFB Surface Normalization (dB): 1.582
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.259
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

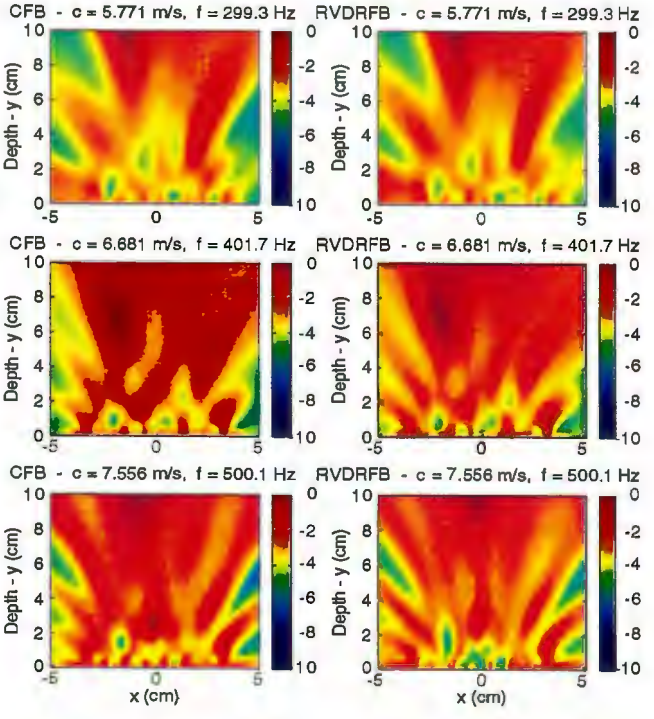

Figure A-100. Image of Data Set 917: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 917_64_256.csd
Runname: 917_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 3.652
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 2.685
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.07
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 7.576
RVDR Surface Normalization (dB): 1.865
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 8.99

Frequency 300 Hz
CFB Surface Normalization (dB): 2.08
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.357
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

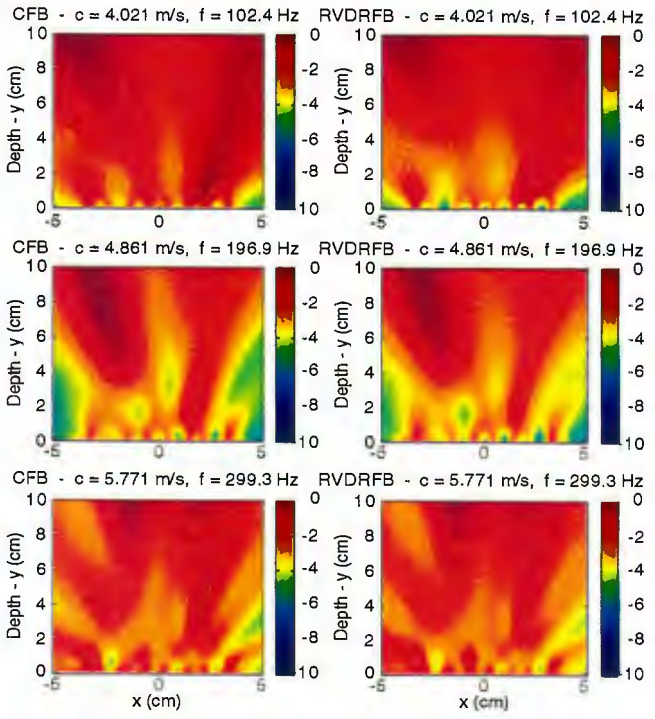

Figure A-101. Image of Data Set 917: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 917_64_256.csd
Runname: 917_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.08
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.357
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.746
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.69
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.6
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.91
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

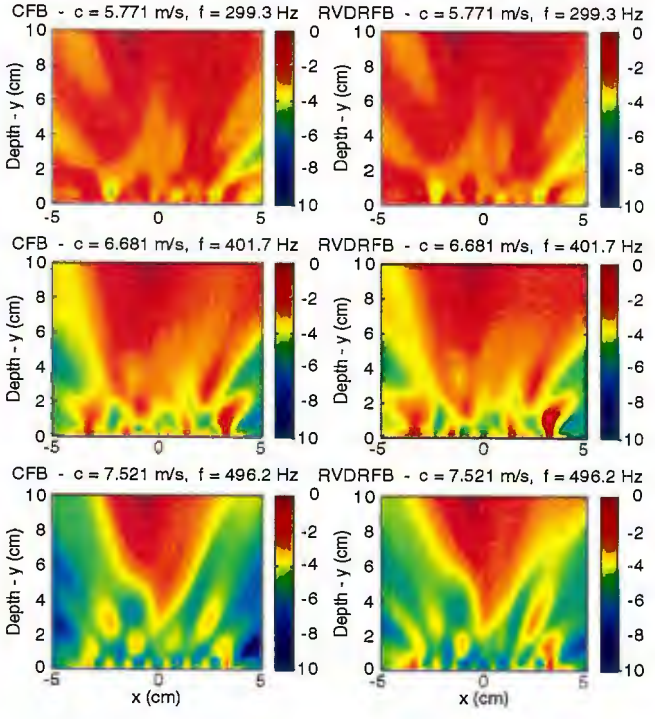

Figure A-102. Image of Data Set 917: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 918_16_1024.csd
Runname: 916_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.624
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 4.851
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.572
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 4.343
RVDR Surface Normalization (dB): 1.43
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 4.141

Frequency 300 Hz
CFB Surface Normalization (dB): 3.45
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 0.09786
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

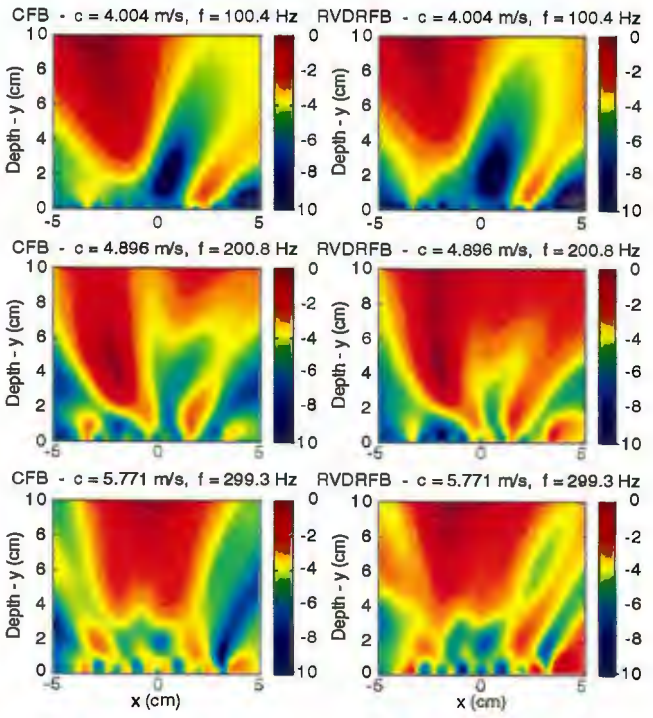

Figure A-103. Image of Data Set 918: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 918_16_1024.csd
Runname: 918_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.45
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 0.09786
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.097
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.223
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.866
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 6.363
RVDR Surface Normalization (dB): -0.34
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 7.373

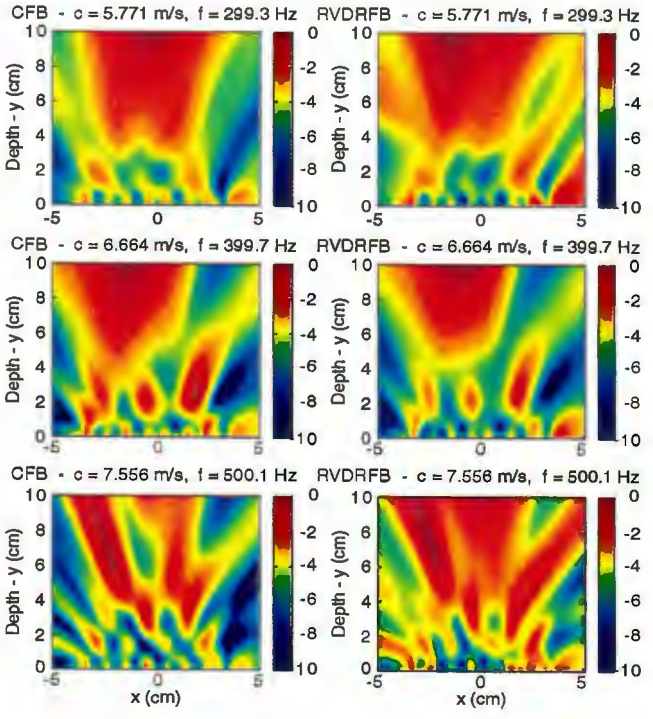

Figure A-104. Image of Data Set 918: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 918_32_512.csd
Runname: 918_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.741
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 10
RVDR Surface Normalization (dB): 4.41
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.568
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 4.343
RVDR Surface Normalization (dB): 1.692
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.794
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): -0.08237
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

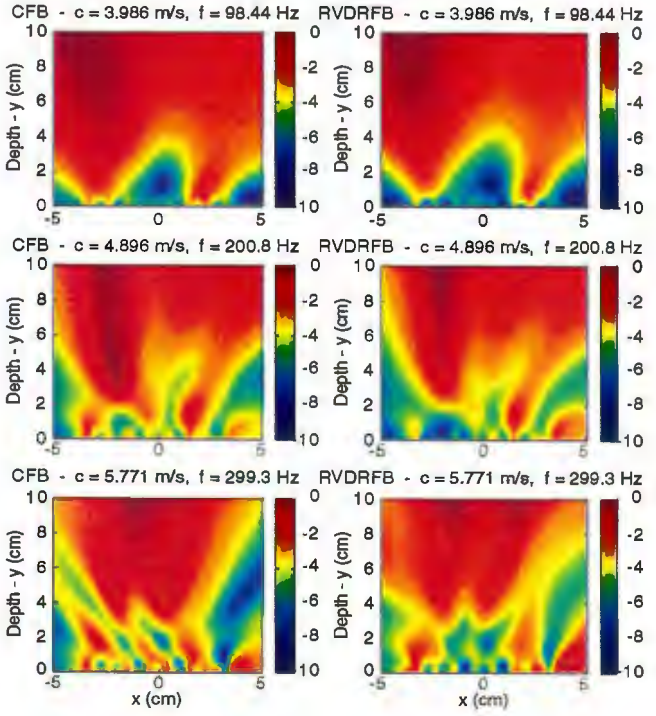

Figure A-105. Image of Data Set 918: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 918_32_512.csd
Runname: 918_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.794
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): -0.08237
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.77
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.463
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.588
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 6.363
RVDR Surface Normalization (dB): 0.2334
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

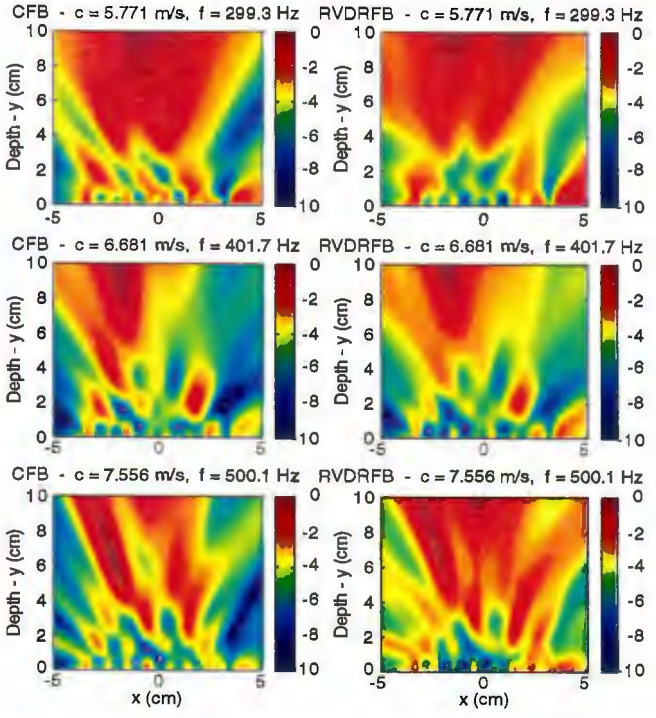

Figure A-106. Image of Data Set 918: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 918_64_256.csd
Runname: 918_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.74
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 4.53
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.017
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.46
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.068
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.9914
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

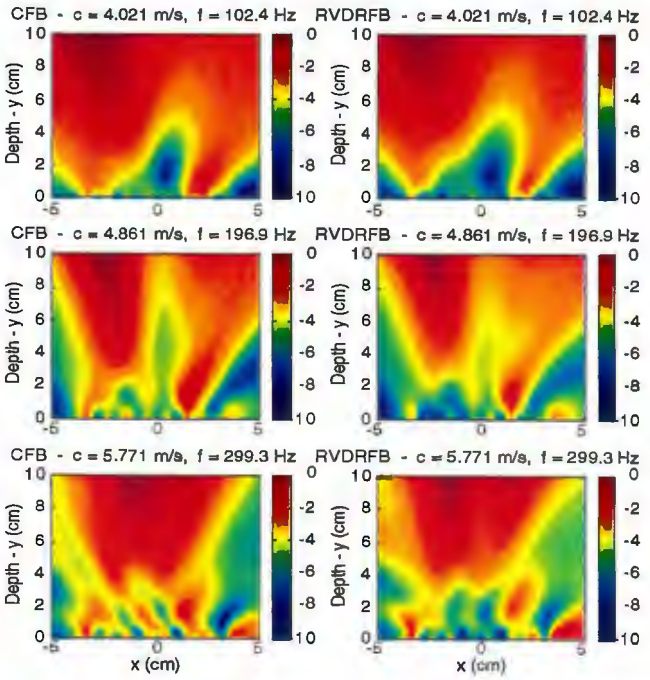

Figure A-107. Image of Data Set 918: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 918_64_256.csd
Runname: 918_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.068
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.9914
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.742
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.94
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.669
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 0.676
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

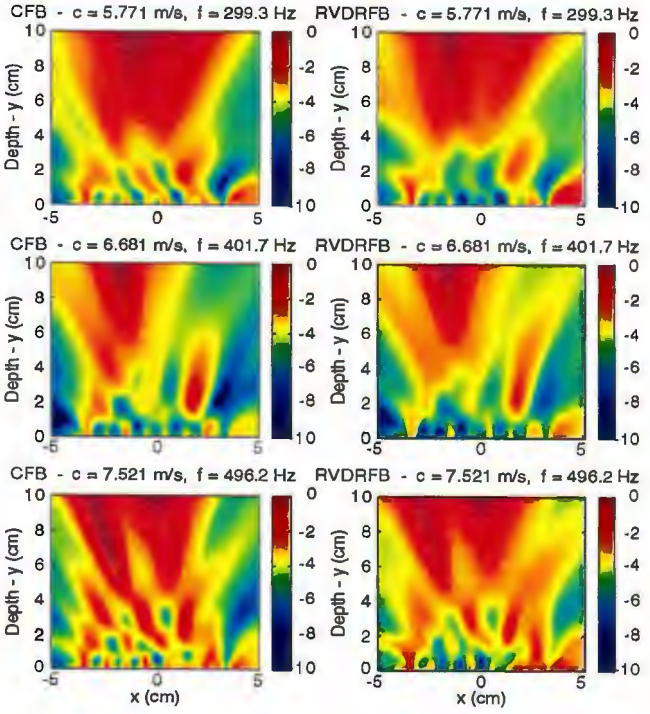

Figure A-108. Image of Data Set 918: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 919_16_1024.csd
Runname: 919_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.315
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 4.343
RVDR Surface Normalization (dB): 3.854
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.23
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 1.662
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.665
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.031
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 8.788

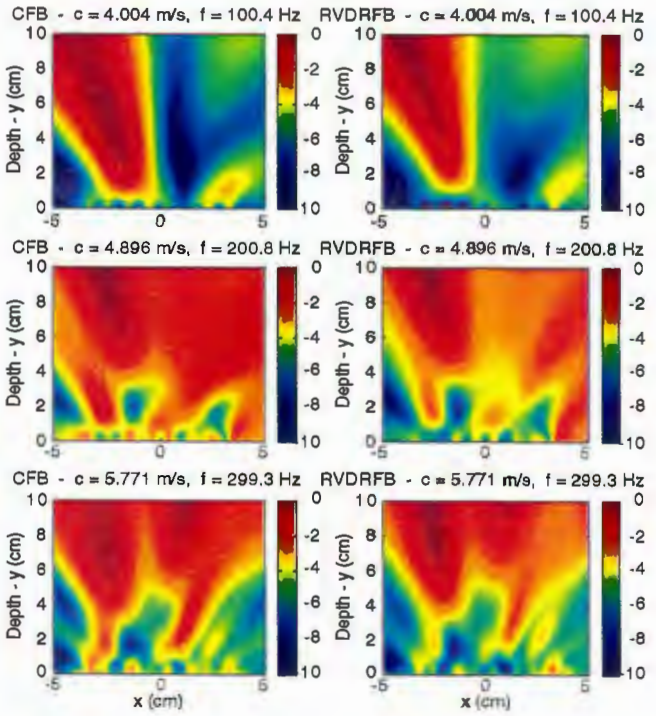

Figure A-109. Image of Data Set 919: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 919_16_1024.csd
Runname: 919_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.665
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.031
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 8.788

Frequency 400 Hz
CFB Surface Normalization (dB): 4.286
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 0.69
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.248
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 4.747
RVDR Surface Normalization (dB): 0.8179
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

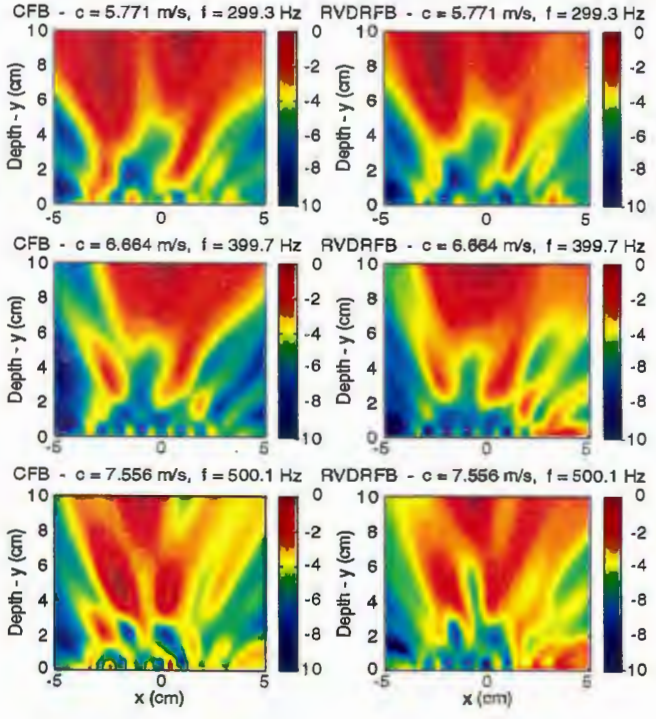

Figure A-110. Image of Data Set 919: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 919_32_512.csd
Runname: 919_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.225
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 3.333
RVDR Surface Normalization (dB): 3.617
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 4.545

Frequency 200 Hz
CFB Surface Normalization (dB): 3.28
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 7.778
RVDR Surface Normalization (dB): 1.907
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 9.798

Frequency 300 Hz
CFB Surface Normalization (dB): 4.348
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.463
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

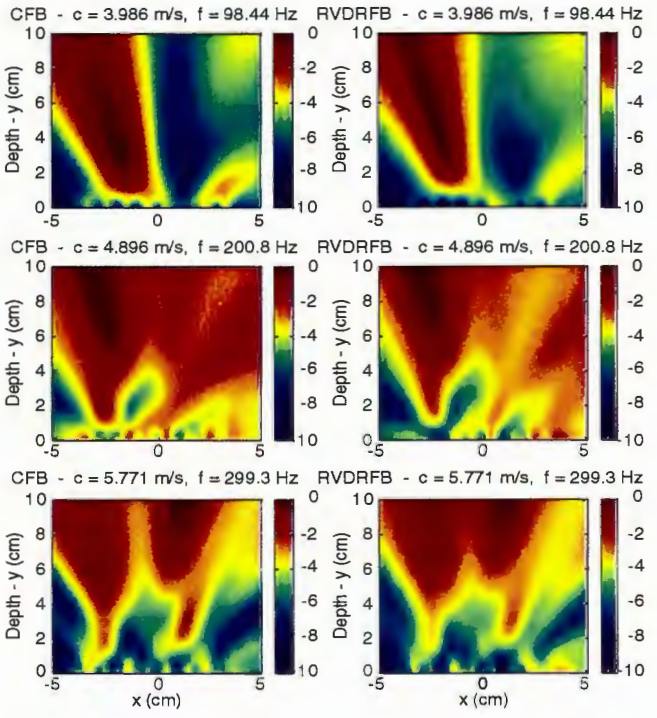

Figure A-111. Image of Data Set 919: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 919_32_512.csd
Runname: 919_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.348
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.463
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.122
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.019
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.281
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.213
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

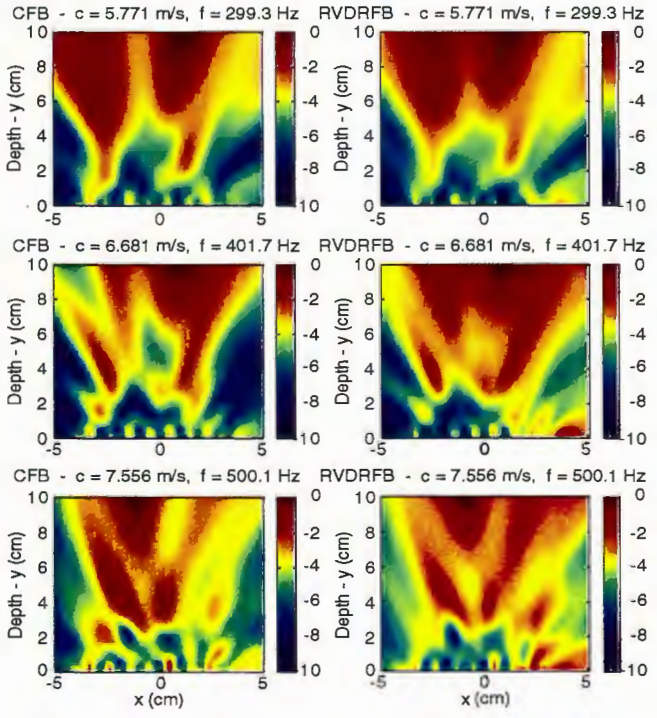

Figure A-112. Image of Data Set 919: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 919_64_256.csd
Runname: 919_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.878
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.079
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 3.131
RVDR Surface Normalization (dB): 4.297
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 4.343

Frequency 200 Hz
CFB Surface Normalization (dB): 3.842
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 8.586
RVDR Surface Normalization (dB): 2.347
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 8.99

Frequency 300 Hz
CFB Surface Normalization (dB): 4.225
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.081
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

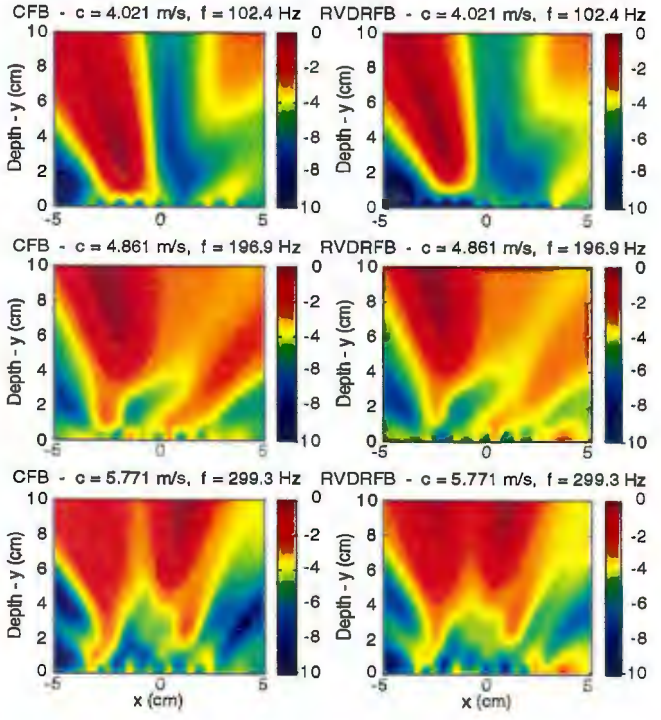

Figure A-113. Image of Data Set 919: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 919_64_256.csd
Runname: 919_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.225
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.081
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.126
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.976
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.433
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.585
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

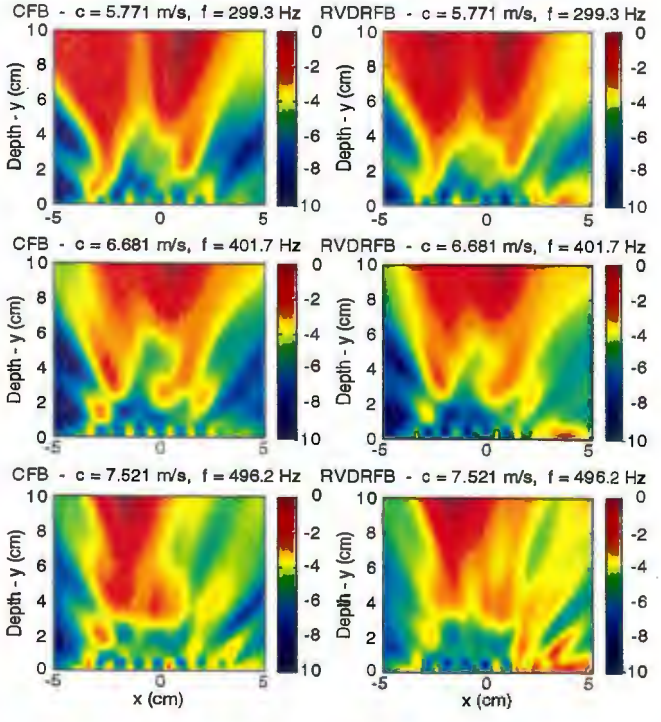

Figure A-114. Image of Data Set 919: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 920_16_1024.csd
Runname: 920_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.21
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 3.737
RVDR Surface Normalization (dB): 4.687
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 4.747

Frequency 200 Hz
CFB Surface Normalization (dB): 4.922
CFB Surface Maximum Location
X (cm): 4.184 Y (cm): 7.171
RVDR Surface Normalization (dB): 1.241
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.942
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.6287
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

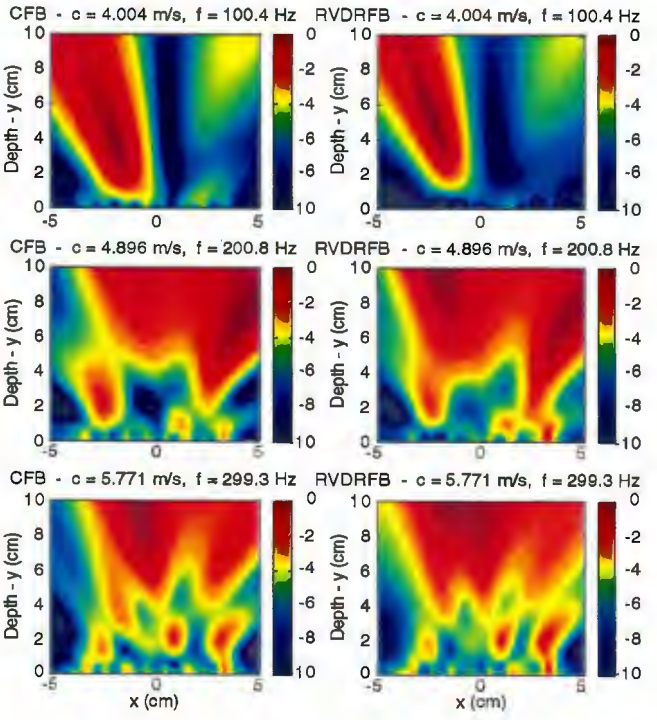

Figure A-115. Image of Data Set 920: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 920_16_1024.csd
Runname: 920_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.942
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.6287
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.205
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.8761
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.453
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 0.8001
RVDR Surface Maximum Location
X (cm): 0.102 Y (cm): 10

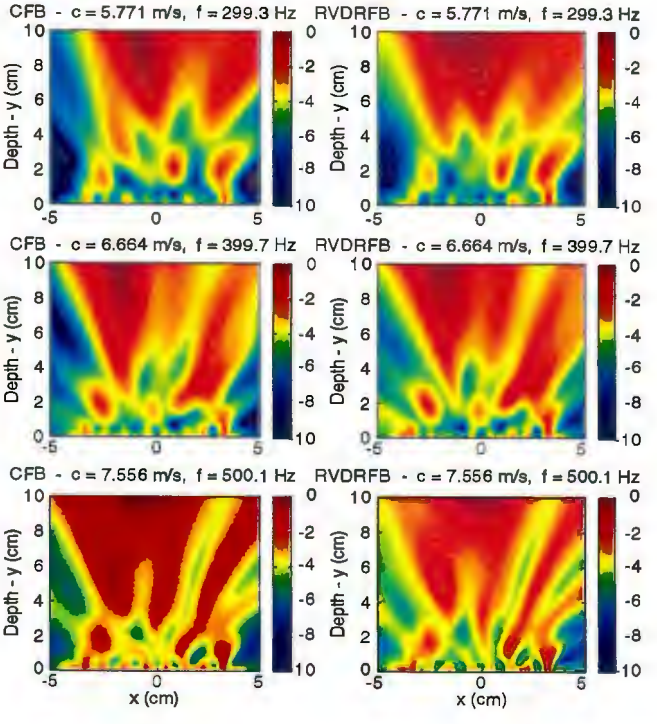

Figure A-116. Image of Data Set 920: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 920_32_512.csd
Runname: 920_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.066
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 4.545
RVDR Surface Normalization (dB): 5.102
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 5.757

Frequency 200 Hz
CFB Surface Normalization (dB): 3.812
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.263
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.226
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.077
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

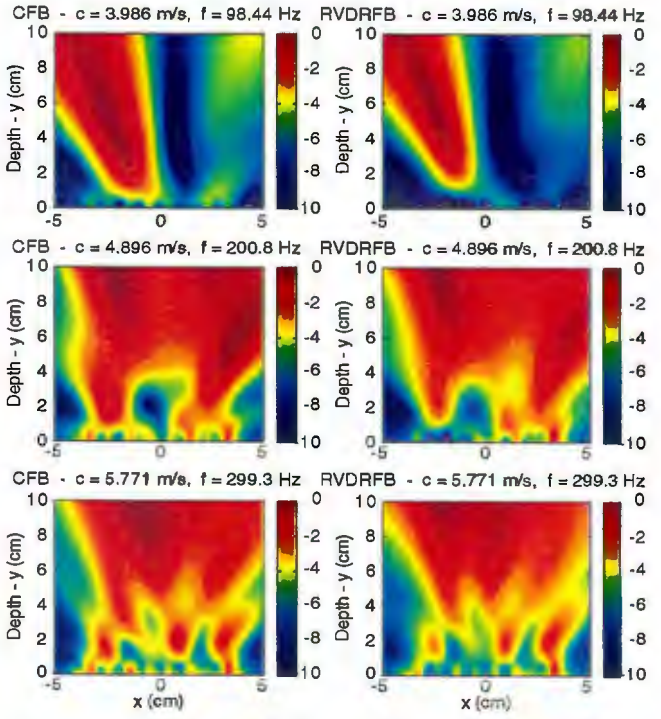

Figure A-117. Image of Data Set 920: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 920_32_512.csd
Runname: 920_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.226
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.077
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.364
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 9.798
RVDR Surface Normalization (dB): 0.9618
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.545
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.7665
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

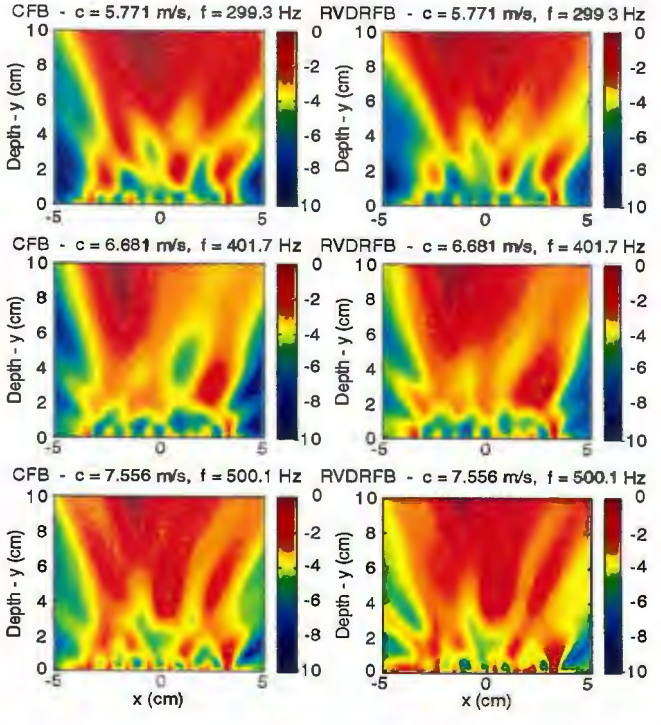

Figure A-118. Image of Data Set 920: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 920_64_256.csd
Runname: 920_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.895
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 3.939
RVDR Surface Normalization (dB): 3.725
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 5.151

Frequency 200 Hz
CFB Surface Normalization (dB): 2.999
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 1.011
RVDR Surface Maximum Location
X (cm): 2.959 Y (cm): 2.12

Frequency 300 Hz
CFB Surface Normalization (dB): 3.116
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.28
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

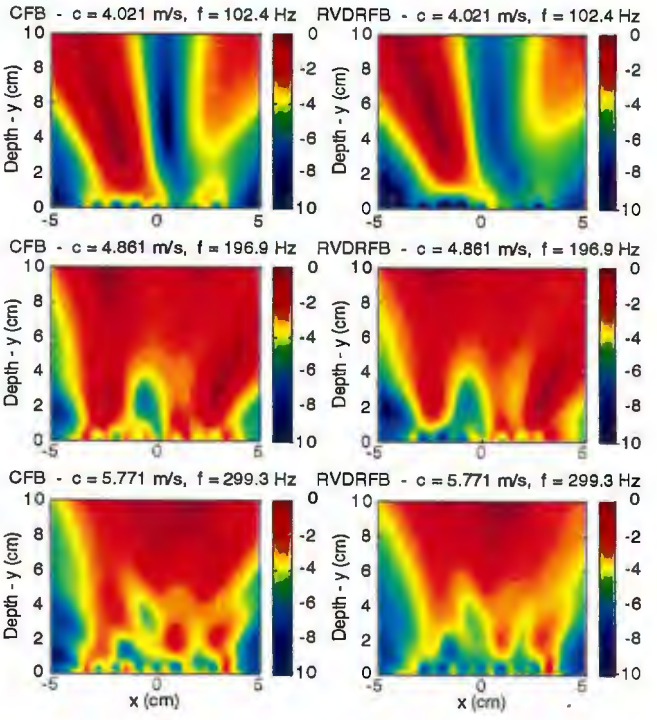

Figure A-119. Image of Data Set 920: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 920_64_256.csd
Runname: 920_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.116
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.28
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.346
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.534
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.455
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.251
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 0.1

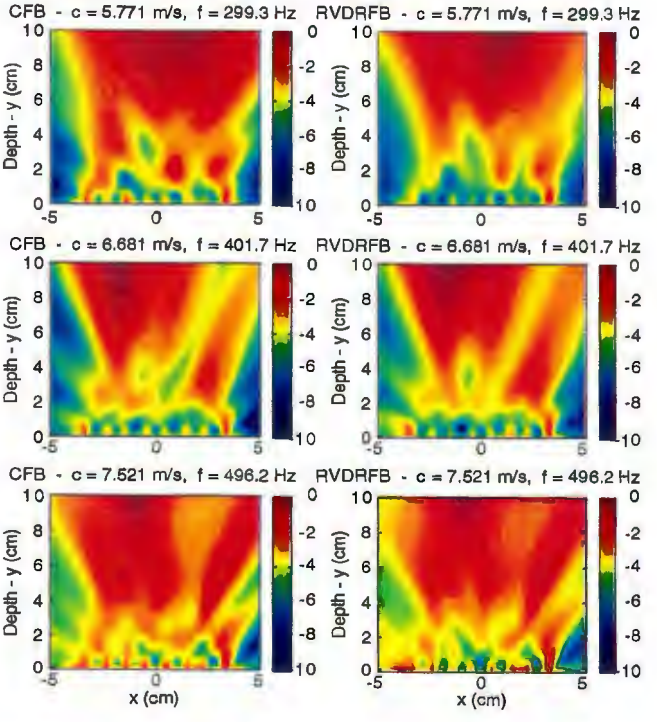

Figure A-120. Image of Data Set 920: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 921_16_1024.csd
Runname: 921_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.266
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 8.788
RVDR Surface Normalization (dB): 5.406
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.823
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.232
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.854
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 4.747
RVDR Surface Normalization (dB): 1.652
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

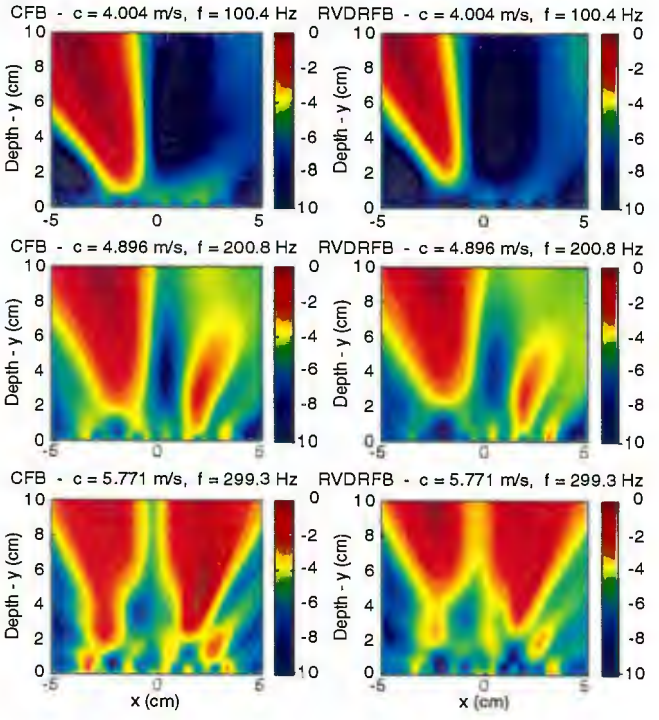

Figure A-121. Image of Data Set 921: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 921_16_1024.csd
Runname: 921_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.854
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 4.747
RVDR Surface Normalization (dB): 1.652
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.965
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.407
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.289
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 8.182
RVDR Surface Normalization (dB): 0.7536
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

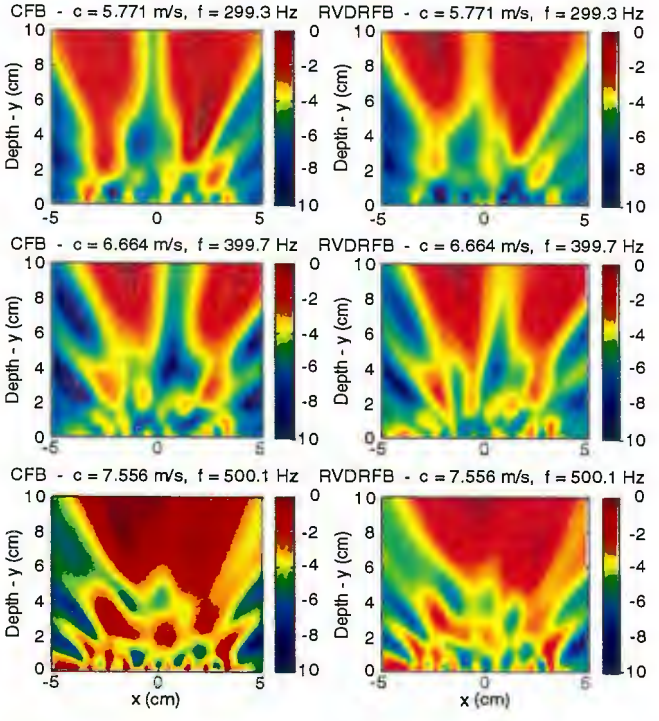

Figure A-122. Image of Data Set 921: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 921_32_512.csd
Runname: 921_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.473
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 3.131
RVDR Surface Normalization (dB): 2.741
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 4.343

Frequency 200 Hz
CFB Surface Normalization (dB): 4.328
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 7.373
RVDR Surface Normalization (dB): 2.8
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 8.182

Frequency 300 Hz
CFB Surface Normalization (dB): 3.682
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.893
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

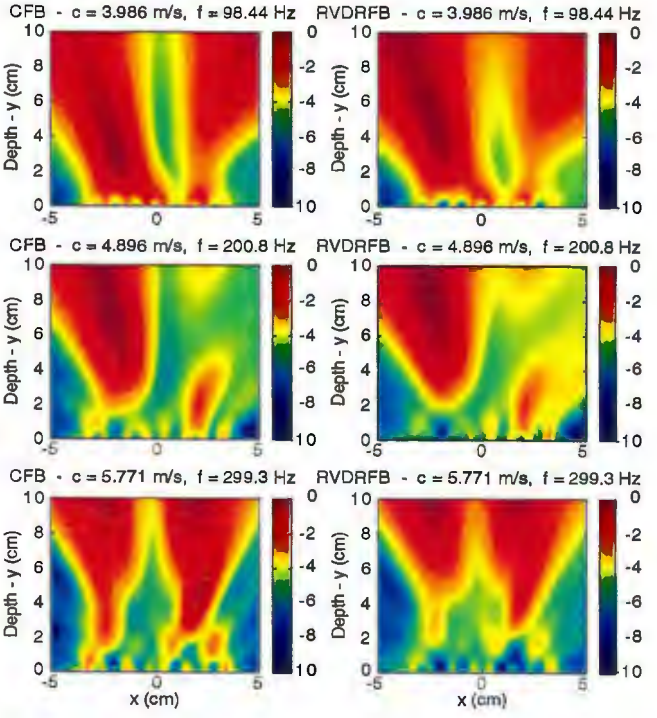

Figure A-123. Image of Data Set 921: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 921_32_512.csd
Runname: 921_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.682
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.893
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.048
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.932
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.645
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.057
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

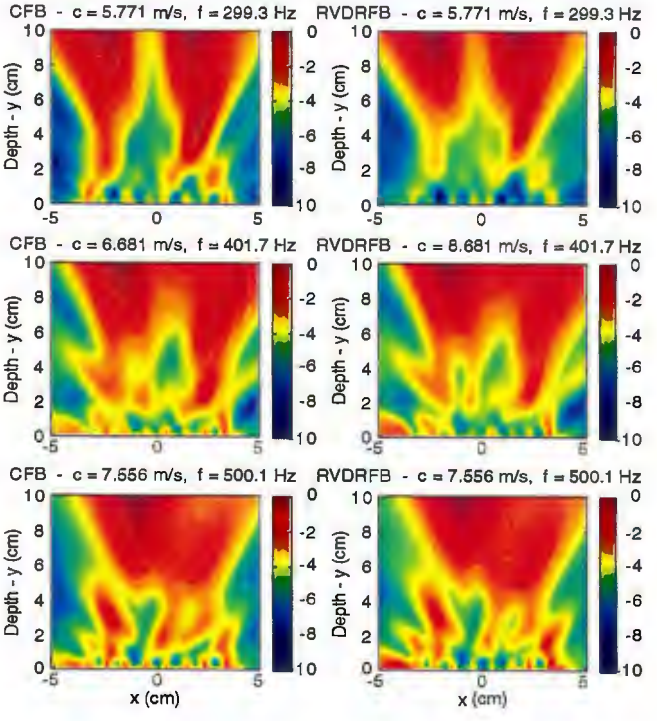

Figure A-124. Image of Data Set 921: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 921_64_256.csd
Runname: 921_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.461
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 4.141
RVDR Surface Normalization (dB): 4.129
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 5.555

Frequency 200 Hz
CFB Surface Normalization (dB): 4.467
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 6.363
RVDR Surface Normalization (dB): 2.842
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 6.565

Frequency 300 Hz
CFB Surface Normalization (dB): 3.861
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.877
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

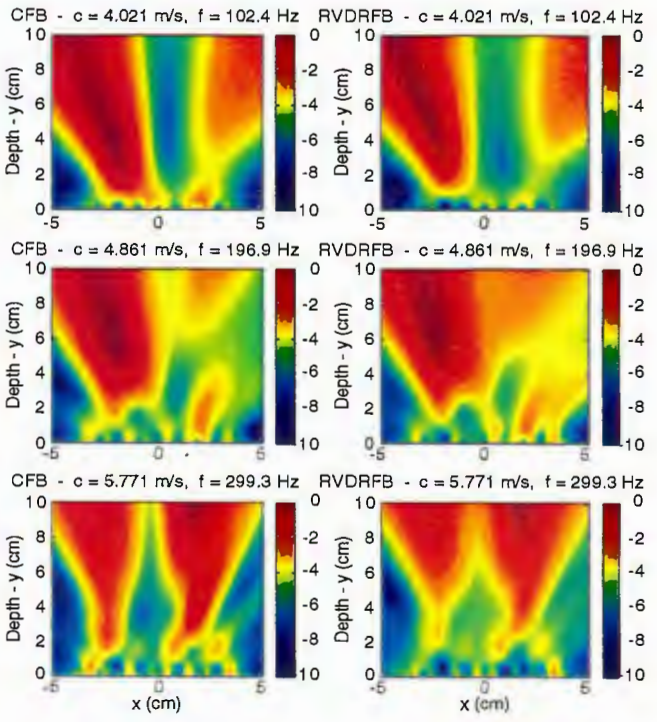

Figure A-125. Image of Data Set 921: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 921_64_256.csd
Runname: 921_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.861
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.877
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.104
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.892
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.658
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.51
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

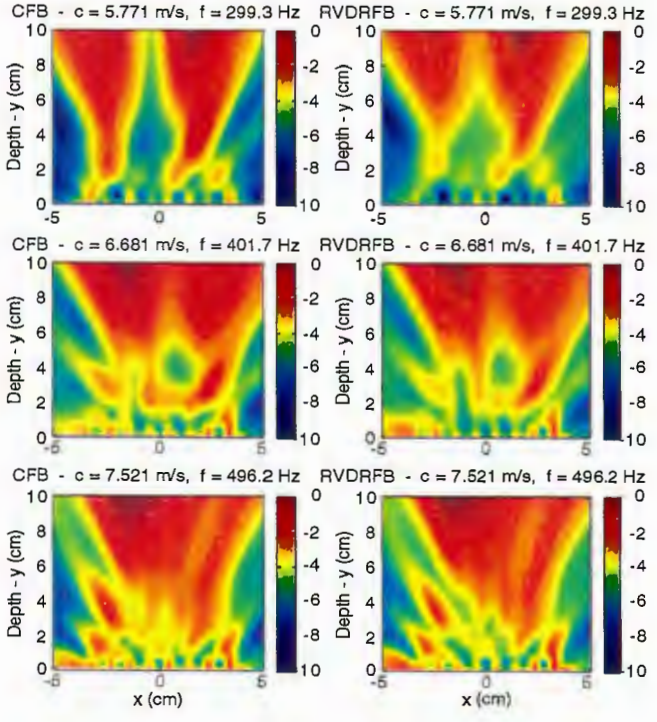

Figure A-126. Image of Data Set 921: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_16_1024.csd
Runname: 922_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.273
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 6.969
RVDR Surface Normalization (dB): 5.102
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 9.798

Frequency 200 Hz
CFB Surface Normalization (dB): 3.073
CFB Surface Maximum Location
X (cm): 3.98 Y (cm): 5.555
RVDR Surface Normalization (dB): 1.922
RVDR Surface Maximum Location
X (cm): 4.388 Y (cm): 6.363

Frequency 300 Hz
CFB Surface Normalization (dB): 2.55
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 4.141
RVDR Surface Normalization (dB): 1.061
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 3.737

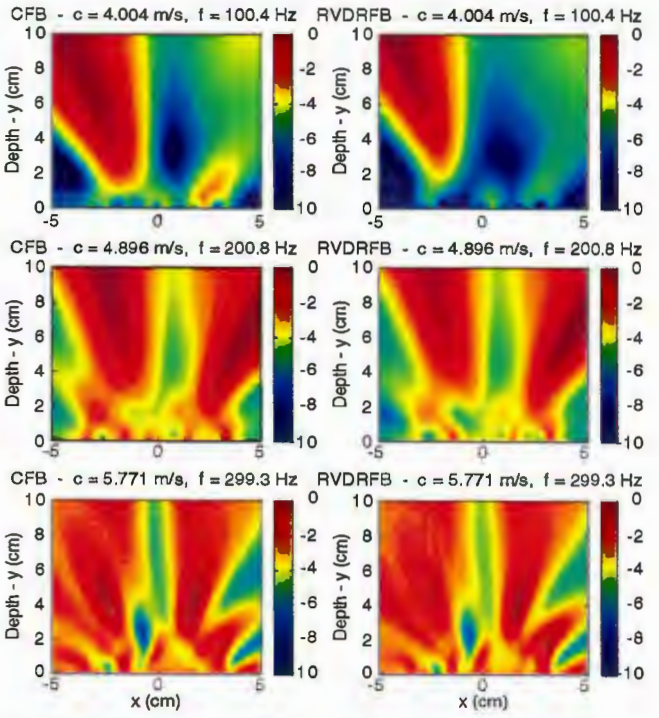

Figure A-127. Image of Data Set 922: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 922_16_1024.csd
Runname: 922_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.55
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 4.141
RVDR Surface Normalization (dB): 1.061
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 3.737

Frequency 400 Hz
CFB Surface Normalization (dB): 1.978
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 2.524
RVDR Surface Normalization (dB): 0.476
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 2.727

Frequency 500 Hz
CFB Surface Normalization (dB): 3.512
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.107
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

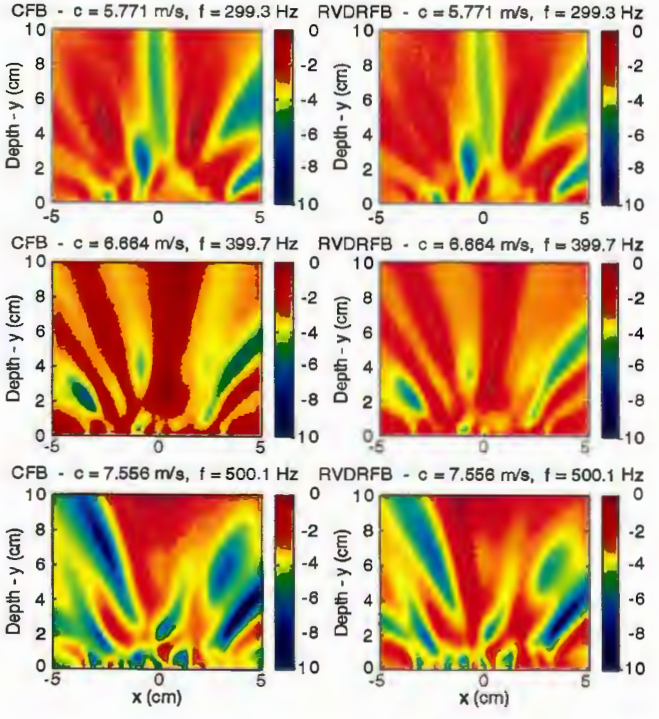

Figure A-128. Image of Data Set 922: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_32_512.csd
Runname: 922_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.117
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 7.373
RVDR Surface Normalization (dB): 3.422
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.129
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.235
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 1.612
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 3.939
RVDR Surface Normalization (dB): 0.2596
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 3.939

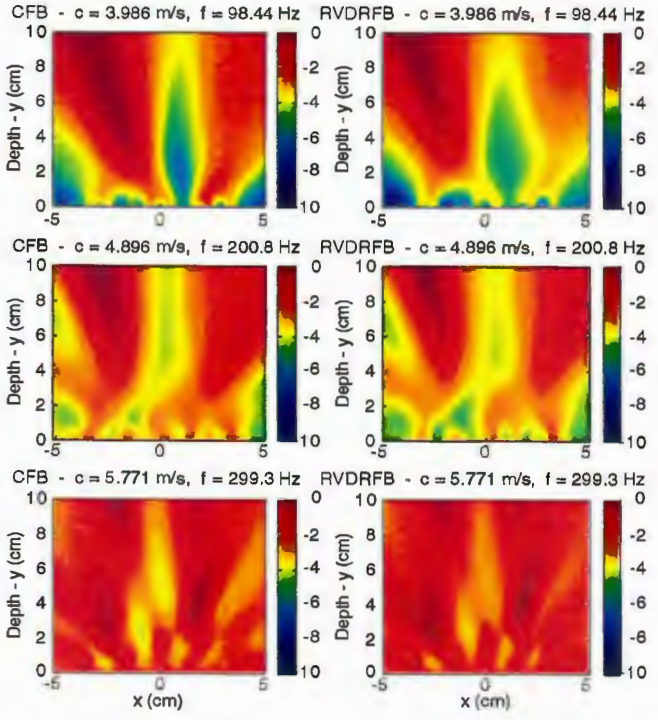

Figure A-129. Image of Data Set 922: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 922_32_512.csd
Runname: 922_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 1.612
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 3.939
RVDR Surface Normalization (dB): 0.2596
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 3.939

Frequency 400 Hz
CFB Surface Normalization (dB): 2.95
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.108
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.323
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.159
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

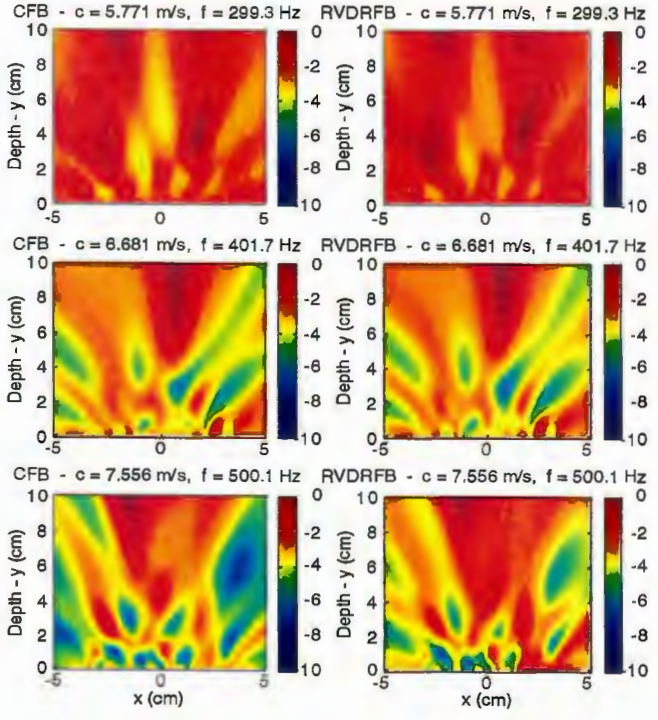

Figure A-130. Image of Data Set 922: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_64_256.csd
Runname: 922_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.055
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 6.161
RVDR Surface Normalization (dB): 4.006
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.045
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 8.788
RVDR Surface Normalization (dB): 1.265
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 1.858
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): 0.8094
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1

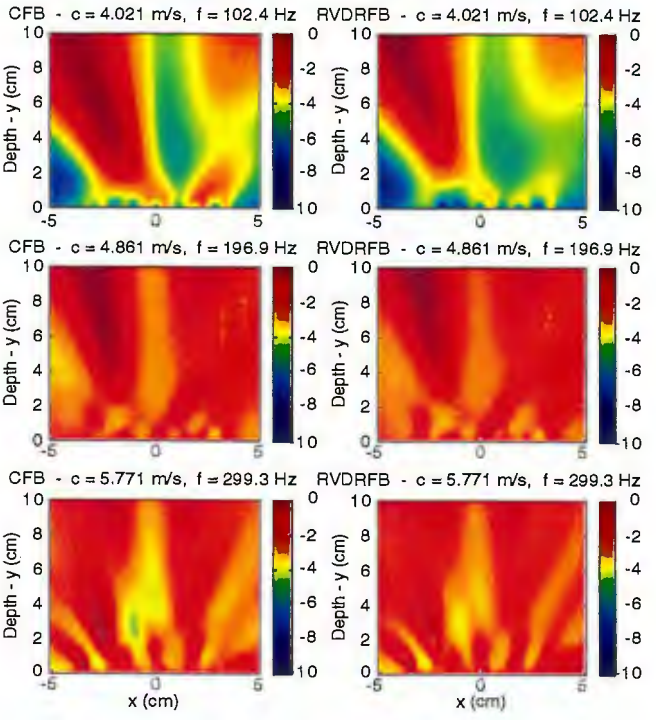

Figure A-131. Image of Data Set 922: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 922_64_256.csd
Runname: 922_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 1.858
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): 0.8094
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1

Frequency 400 Hz
CFB Surface Normalization (dB): 2.028
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.011
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.36
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.042
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

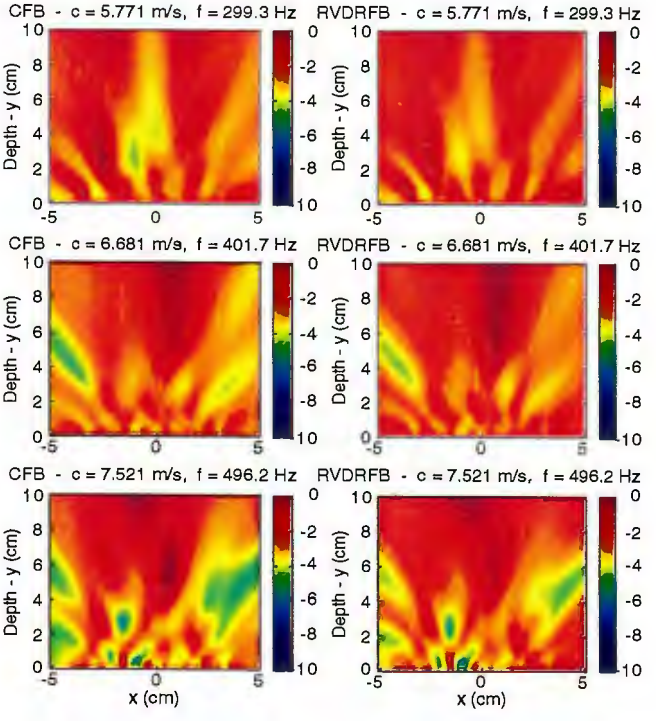

Figure A-132. Image of Data Set 922: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 923_16_1024.csd
Runname: 923_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.16
CFB Surface Maximum Location
X (cm): 4.388 Y (cm): 10
RVDR Surface Normalization (dB): 3.831
RVDR Surface Maximum Location
X (cm): 4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.641
CFB Surface Maximum Location
X (cm): 3.98 Y (cm): 10
RVDR Surface Normalization (dB): 1.219
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.247
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.009
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

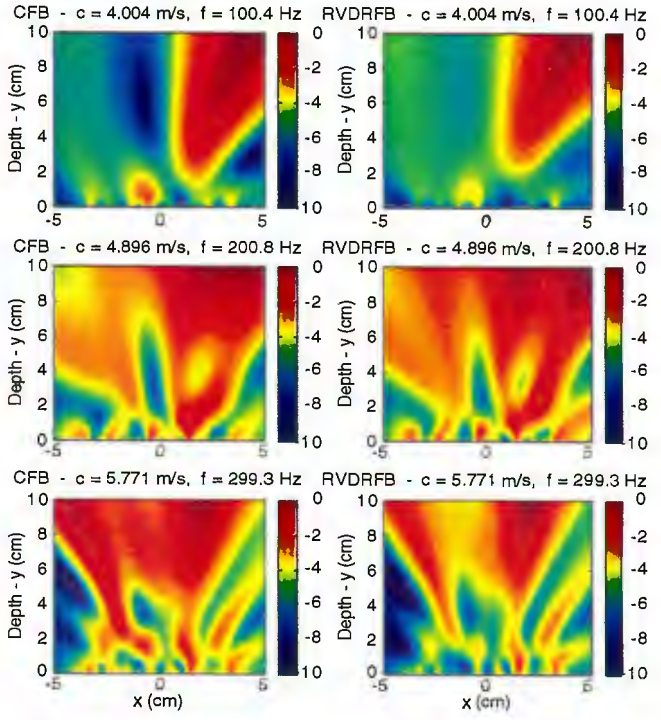

Figure A-133. Image of Data Set 923: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 923_16_1024.csd
Runname: 923_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.247
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.009
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.62
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 4.141
RVDR Surface Normalization (dB): 0.3219
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 4.141

Frequency 500 Hz
CFB Surface Normalization (dB): 2.038
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 4.949
RVDR Surface Normalization (dB): 0.7995
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 1.514

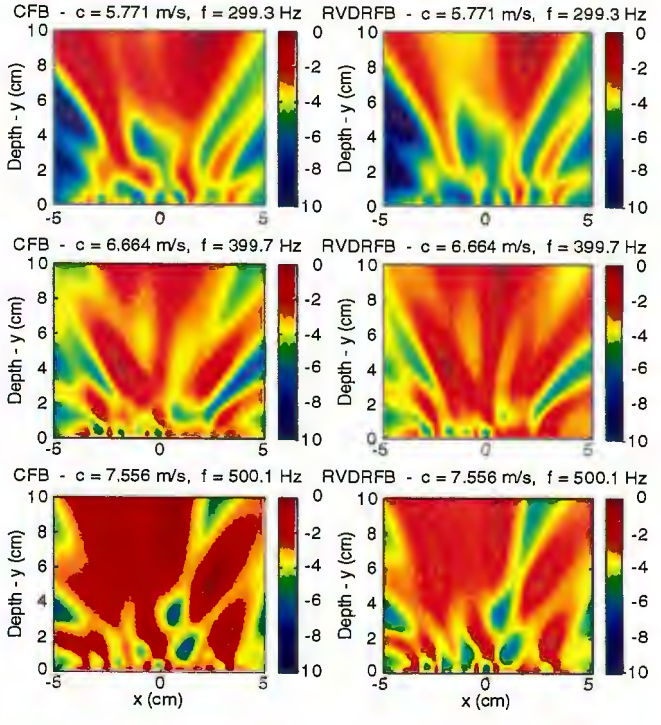

Figure A-134. Image of Data Set 923: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 923_32_512.csd
Runname: 923_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.717
CFB Surface Maximum Location
X (cm): 4.184 Y (cm): 10
RVDR Surface Normalization (dB): 5.41
RVDR Surface Maximum Location
X (cm): 4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.598
CFB Surface Maximum Location
X (cm): 4.184 Y (cm): 10
RVDR Surface Normalization (dB): 1.686
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.545
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.9
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

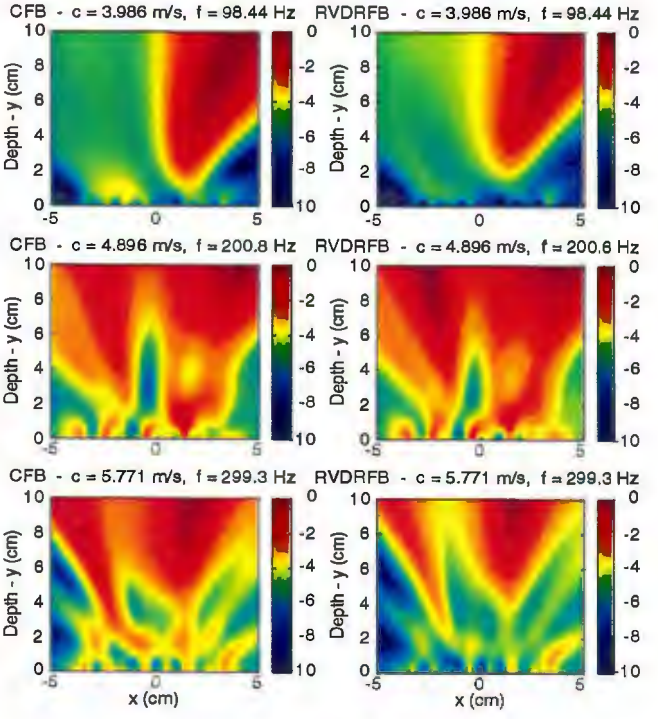

Figure A-135. Image of Data Set 923: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 923_32_512.csd
Runname: 923_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.545
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.9
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.751
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.039
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 1.731
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 0.782
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 1.312

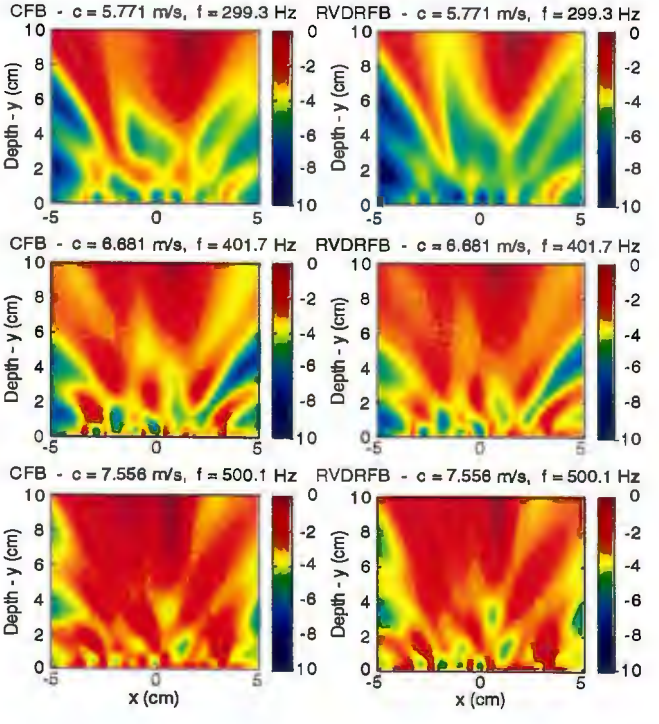

Figure A-136. Image of Data Set 923: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 923_64_256.csd
Runname: 923_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.871
CFB Surface Maximum Location
X (cm): 4.184 Y (cm): 10
RVDR Surface Normalization (dB): 3.468
RVDR Surface Maximum Location
X (cm): 4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.878
CFB Surface Maximum Location
X (cm): 4.592 Y (cm): 10
RVDR Surface Normalization (dB): 2.041
RVDR Surface Maximum Location
X (cm): 4.796 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.736
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.604
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

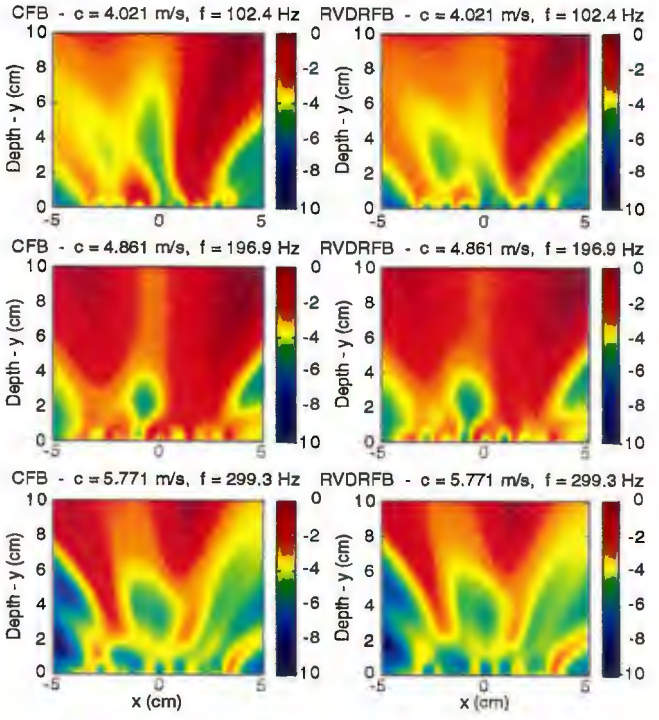

Figure A-137. Image of Data Set 923: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 923_64_256.csd
Runname: 923_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.736
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.604
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.413
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.722
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.881
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.46
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

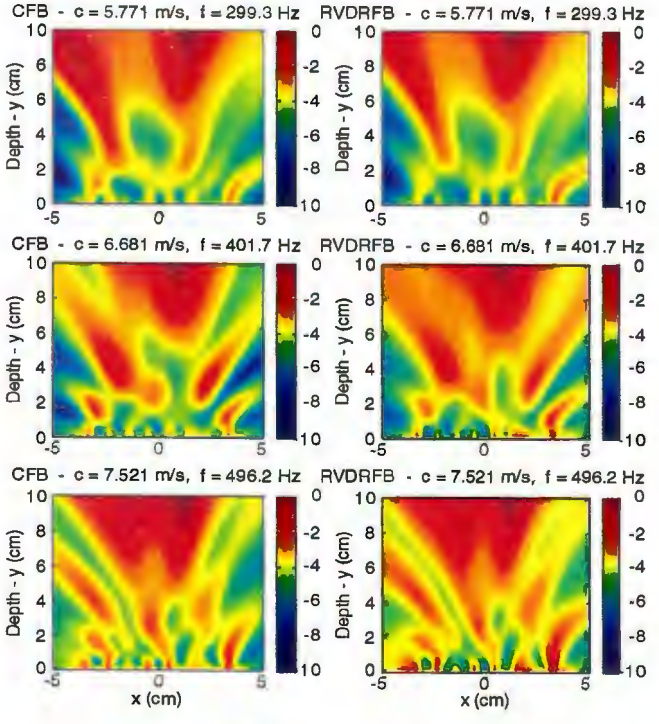

Figure A-138. Image of Data Set 923: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 924_16_1024.csd
Runname: 924_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.869
CFB Surface Maximum Location
X (cm): 3.98 Y (cm): 10
RVDR Surface Normalization (dB): 3.896
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.328
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 1.035
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.407
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 5.353
RVDR Surface Normalization (dB): 2.061
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

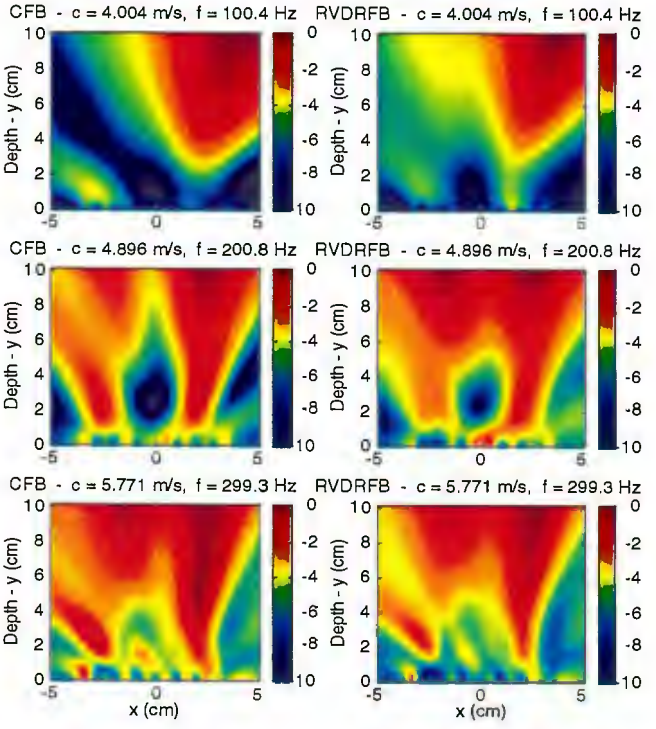

Figure A-139. Image of Data Set 924: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 924_16_1024.csd
Runname: 924_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.407
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 5.353
RVDR Surface Normalization (dB): 2.061
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.528
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 0.7264
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.099
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.6487
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

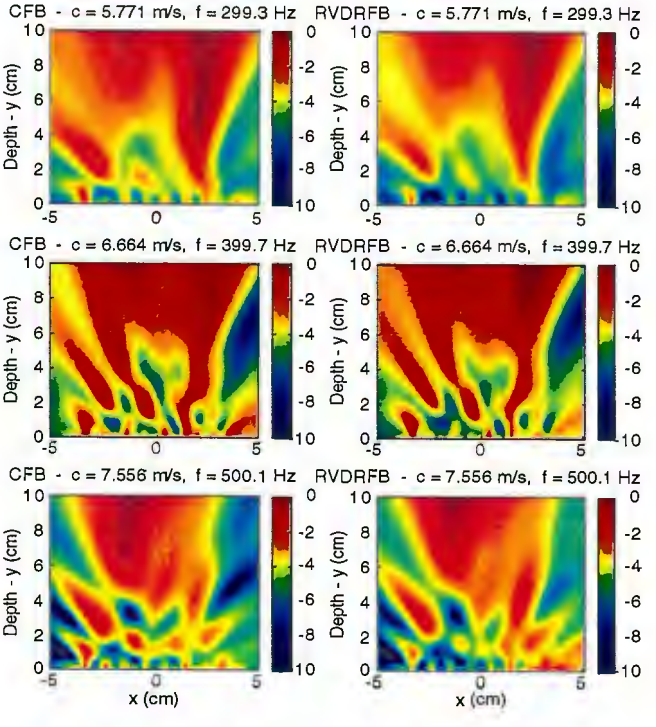

Figure A-140. Image of Data Set 924: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 924_32_512.csd
Runname: 924_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.546
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.591
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.386
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.125
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.961
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.062
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

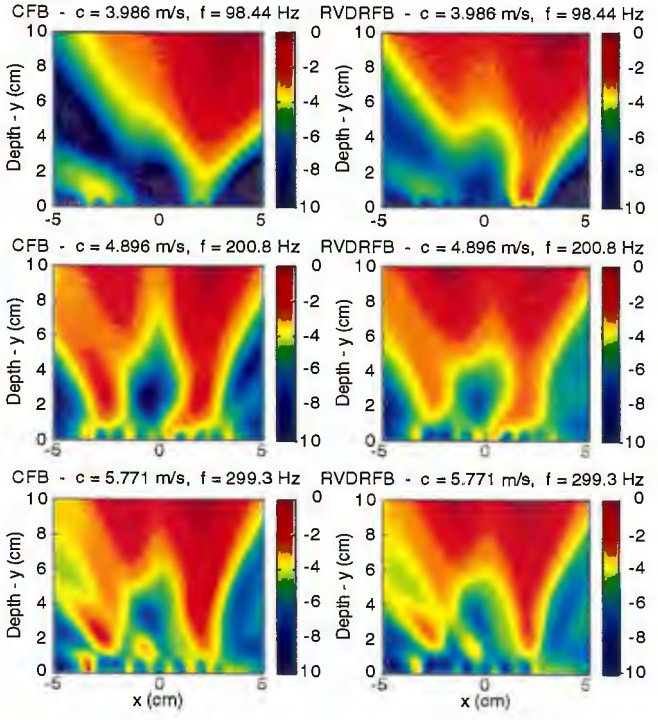

Figure A-141. Image of Data Set 924: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 924_32_512.csd
Runname: 924_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.961
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.062
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.653
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 5.555
RVDR Surface Normalization (dB): 1.113
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.762
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.909
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

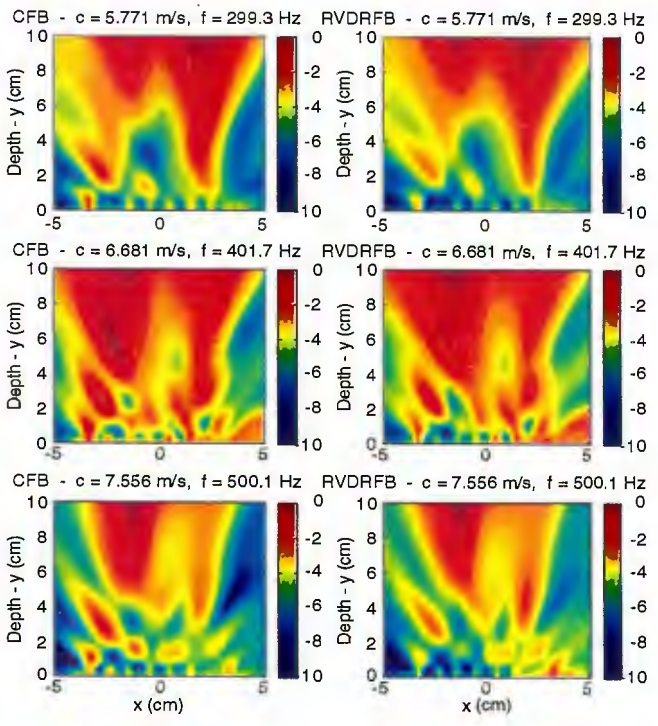

Figure A-142. Image of Data Set 924: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 924_64_256.csd
Runname: 924_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.551
CFB Surface Maximum Location
X (cm): 3.98 Y (cm): 10
RVDR Surface Normalization (dB): 3.885
RVDR Surface Maximum Location
X (cm): 3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.844
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.833
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.228
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.788
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

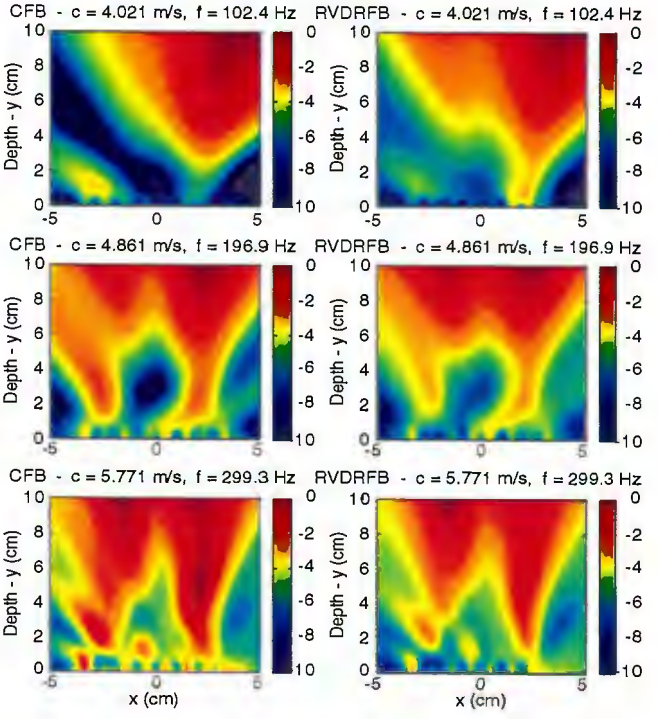

Figure A-143. Image of Data Set 924: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 924_64_256.csd
Runname: 924_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.228
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.788
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.54
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.129
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.817
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 0.8783
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

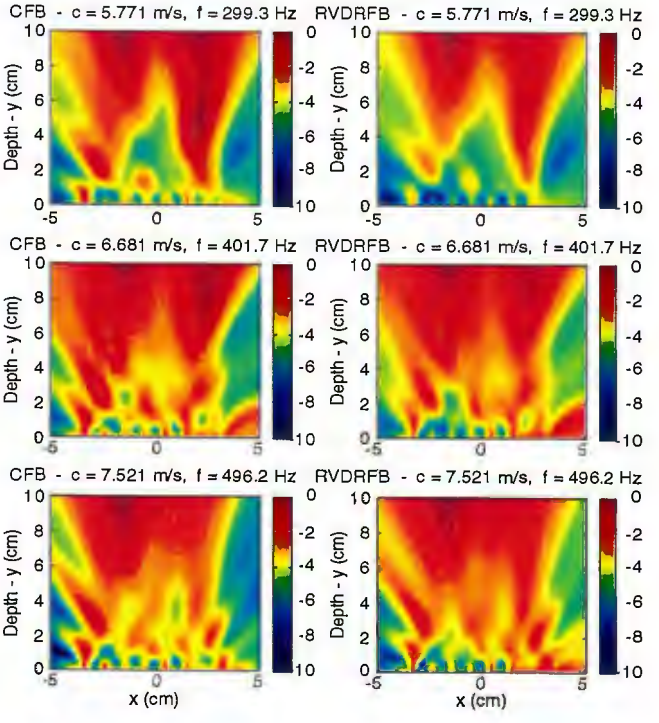

Figure A-144. Image of Data Set 924: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Bottom), and 500 Hz (Bottom)

Filename: 925_16_1024.csd
Runname: 925_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.785
CFB Surface Maximum Location
X (cm): 4.796 Y (cm): 10
RVDR Surface Normalization (dB): 3.689
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.605
CFB Surface Maximum Location
X (cm): 2.755 Y (cm): 10
RVDR Surface Normalization (dB): 1.091
RVDR Surface Maximum Location
X (cm): 2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.461
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.6012
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

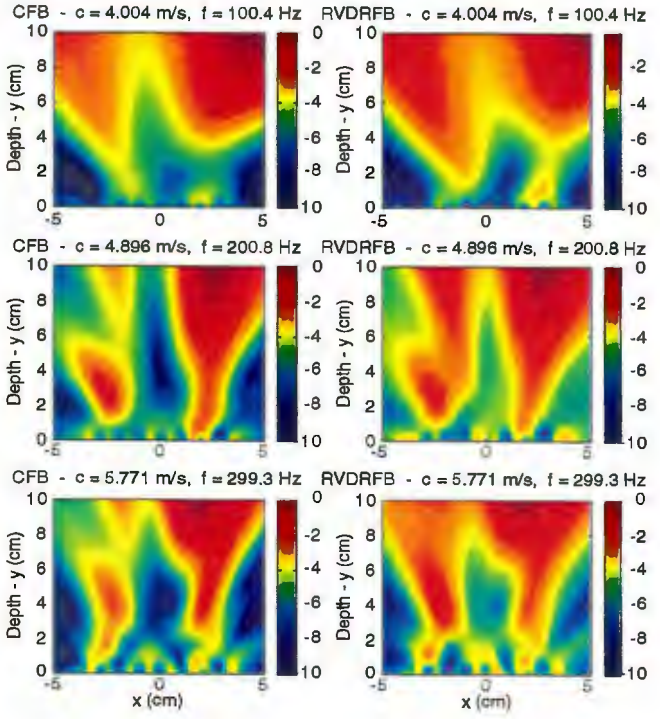

Figure A-145. Image of Data Set 925: 16 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 925_16_1024.csd
Runname: 925_16_1024
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.461
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.6012
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.785
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): -0.3427
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.829
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.724
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

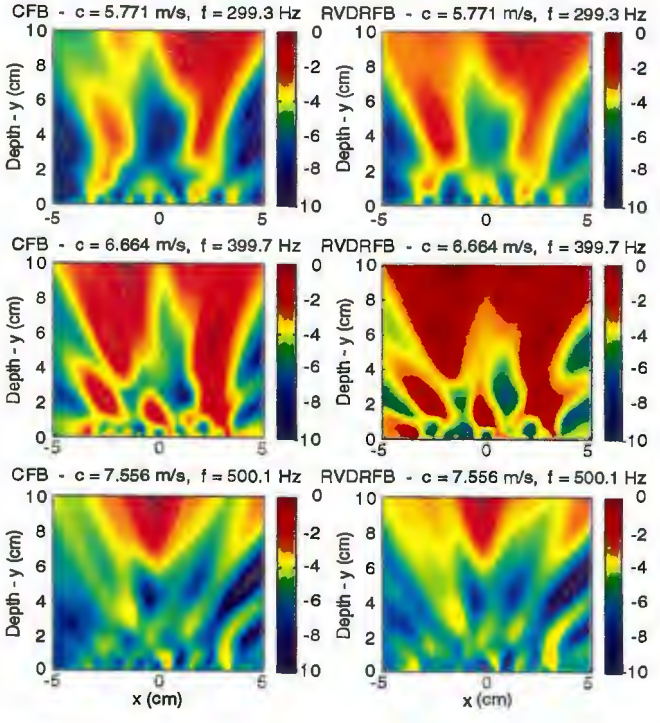

Figure A-146. Image of Data Set 925: 16 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 925_32_512.csd
Runname: 925_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.3
CFB Surface Maximum Location
X (cm): 4.796 Y (cm): 10
RVDR Surface Normalization (dB): 3.474
RVDR Surface Maximum Location
X (cm): 4.592 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.656
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 0.9008
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.005
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.9977
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

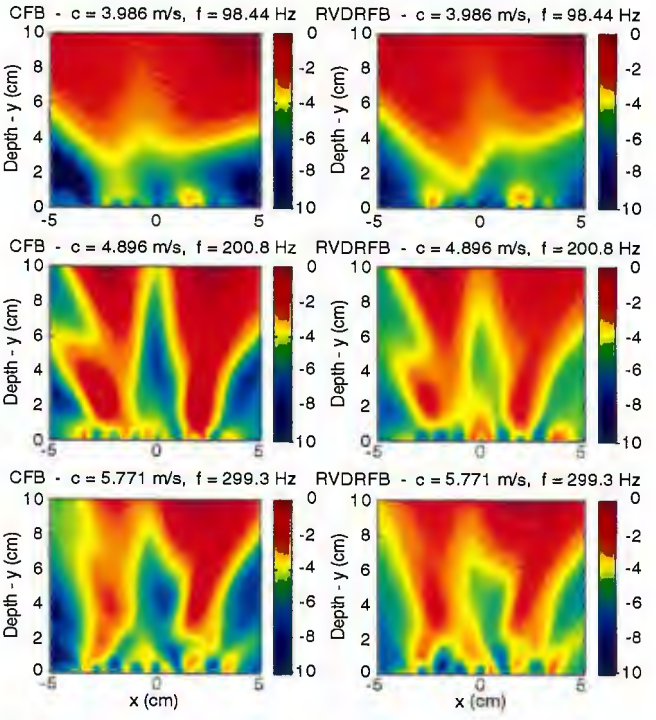

Figure A-147. Image of Data Set 925: 32 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 925_32_512.csd
Runname: 925_32_512
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.005
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.9977
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.556
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.091
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.607
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.572
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

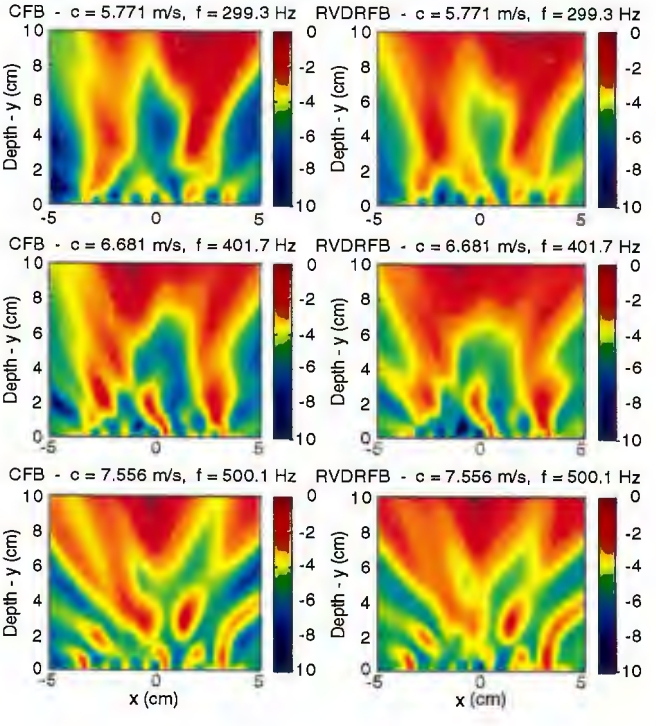

Figure A-148. Image of Data Set 925: 32 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 925_64_256.csd
Runname: 925_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.359
CFB Surface Maximum Location
X (cm): 4.388 Y (cm): 10
RVDR Surface Normalization (dB): 3.479
RVDR Surface Maximum Location
X (cm): 4.592 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.083
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.173
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.25
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.541
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

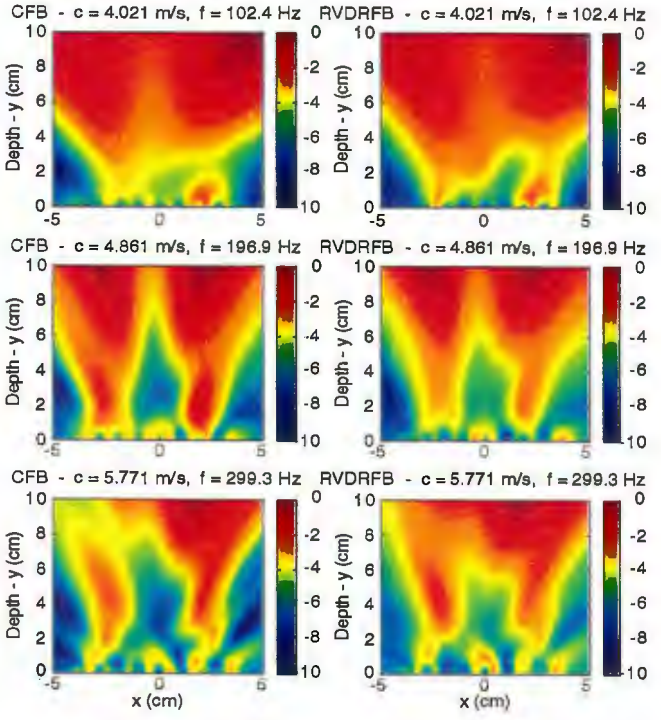

Figure A-149. Image of Data Set 925: 64 FFTs, 15 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 925_64_256.csd
Runname: 925_64_256
Diastolic Phase
Spreading Parameter = 1
15 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.25
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.541
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.334
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 0.9499
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.489
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.195
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

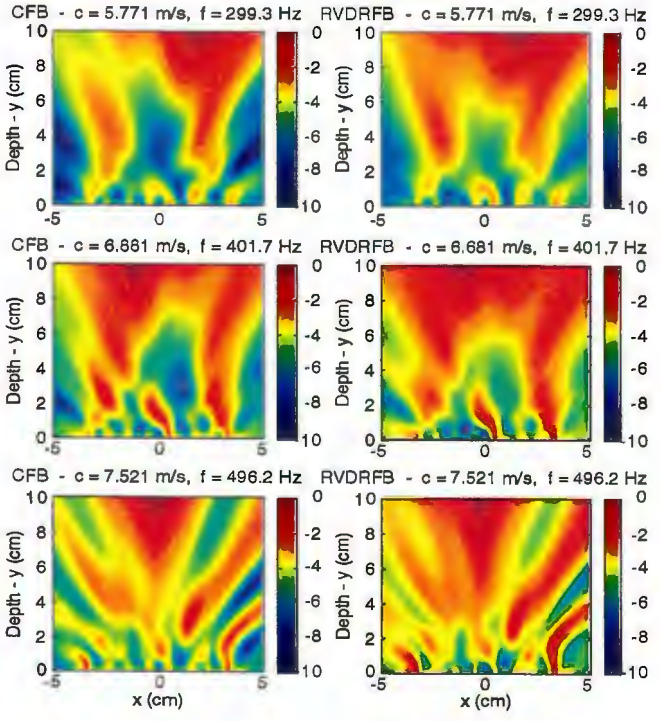

Figure A-150. Image of Data Set 925: 64 FFTs, 15 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

APPENDIX B
IMAGES FOR IMAGE SET 2

The image set in this appendix comprises images from 25 data sets. Each data set consists of approximately 16,000 data points, selected from a 60-second sample. The points were taken exclusively from the diastolic phase of the heartbeat. An EKG was used to definitively identify the S1 heart sound. From that, the S2 heart sound was located and data points were taken from the interval between the S2 sound and the following S1 sound.

Each of the 25 data sets was processed using three different combinations of FFT length and number of FFTs performed: 16 FFTs with length of 1024 points, 32 FFTs with length of 512 points, and 64 FFTs with length of 256 points, creating a total of 75 processed data sets.

For image set 2, the following input values were used in creating the beamformed images. The wave speed through tissue at 100 Hz was set at 4 m/s. The wave speed at 1000 Hz was set at 12 m/s. These values were selected based on given wave speed values of 3.75 m/s and 13 m/s, respectively, and should be experimented with in future image sets. The RVDR enhancement value was 6.0. This value was chosen while experimenting with one of the above data sets. Nine of the 15 channels were processed. Processing 9 channels allows a comparison of the linear array and the volumetric array. This comparison will provide insight into the effect of the array's "wings" on the final image.

Filename: 901_16_1024.csd
Runname: 901_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.702
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 4.712
RVDR Surface Maximum Location
X (cm): -3.96 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.859
CFB Surface Maximum Location
X (cm): 2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.47
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.39
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.248
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

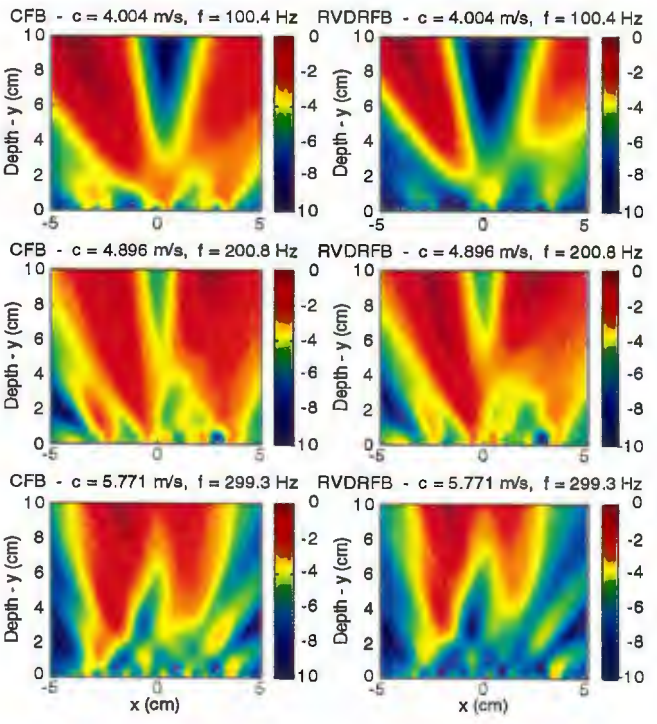

Figure B-1. Image of Data Set 901: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 901_16_1024.csd
Runname: 901_16_1024
DAWG Data
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.39
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.248
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.683
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.312
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.285
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.23
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

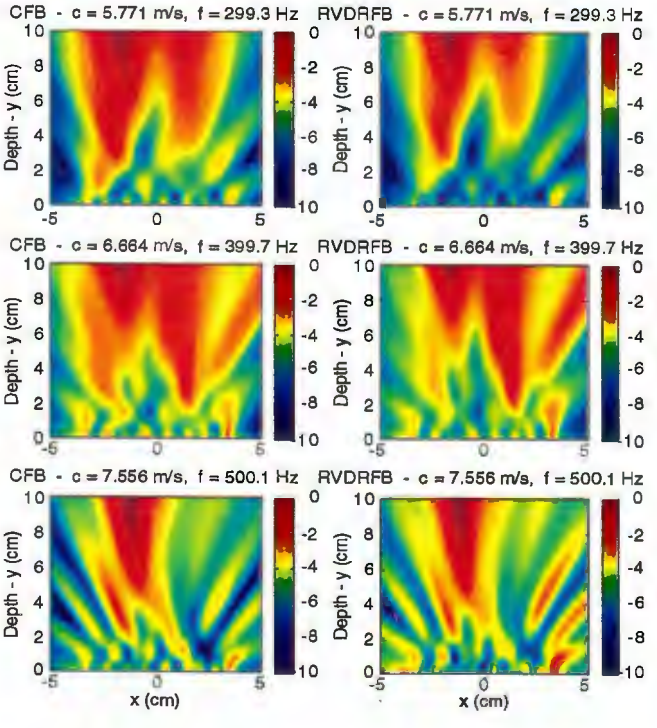

Figure B-2. Image of Data Set 901: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 901_32_512.csd
Runname: 901_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.898
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 3.952
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.66
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 3.079
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.767
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.717
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

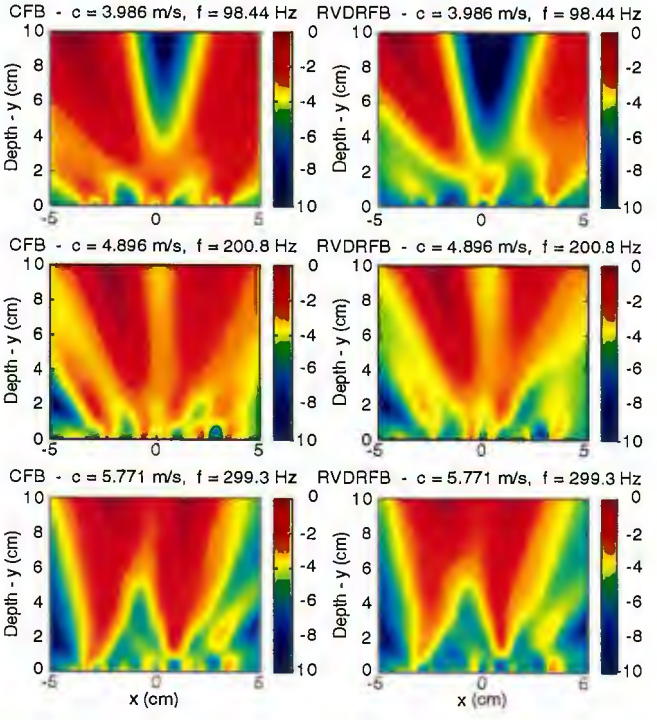

Figure B-3. Image of Data Set 901: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 901_32_512.csd
Runname: 901_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.767
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.717
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.869
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.941
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.061
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.32
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

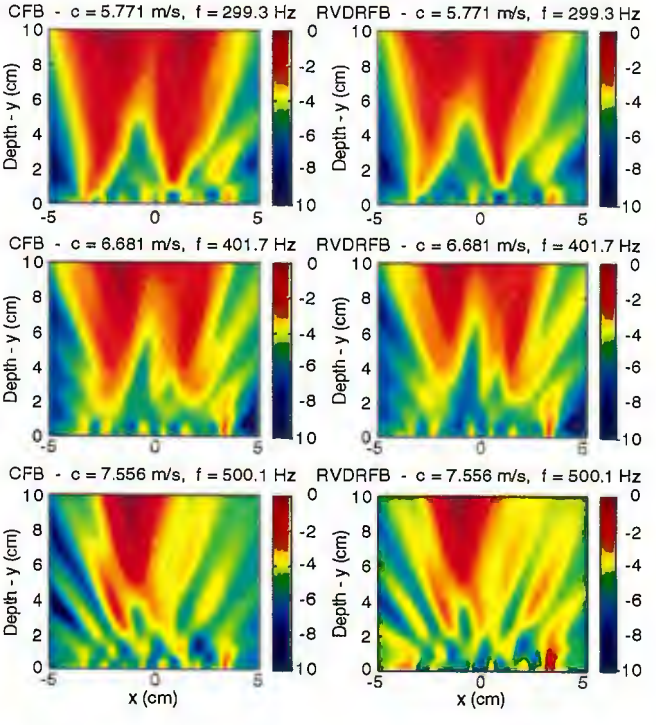

Figure B-4. Image of Data Set 901: 32 FFTs, 9 Channels Used at 300 Hz (Top) 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 901_64_256.csd
Runname: 901_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.092
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.942
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.42
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.769
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.895
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.767
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

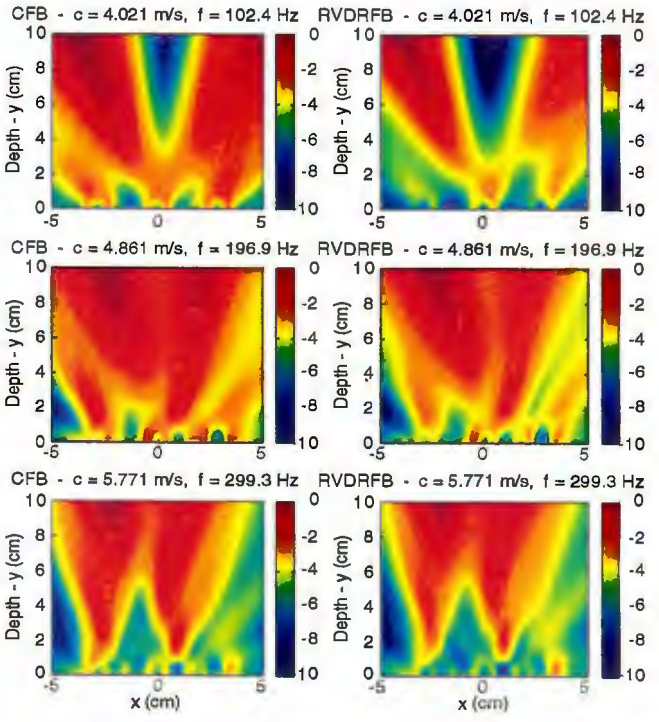

Figure B-5. Image of Data Set 901: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 901_64_256.csd
Runname: 901_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.676
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.895
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.767
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.657
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.696
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.929
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.322
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

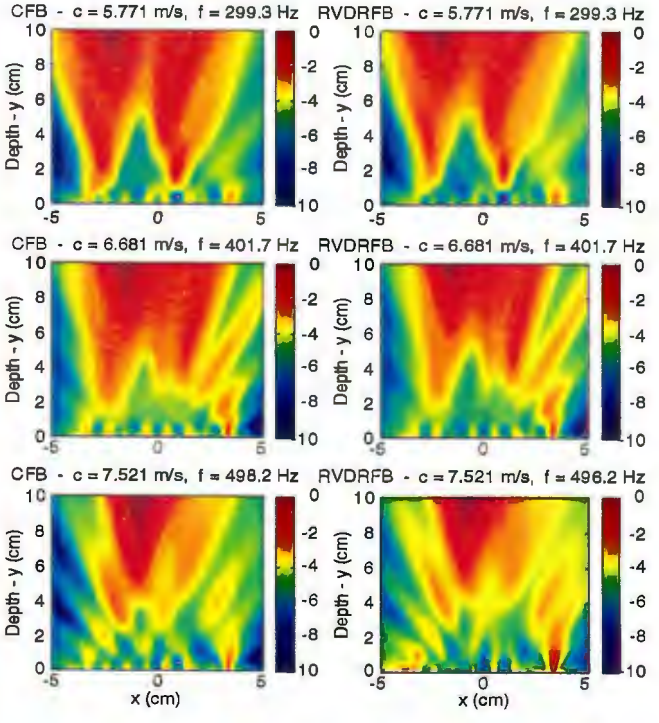

Figure B-6. Image of Data Set 901: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 902_16_1024.csd
Runname: 902_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.809
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.68
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.207
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 3.756
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 7.178
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 5.288
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

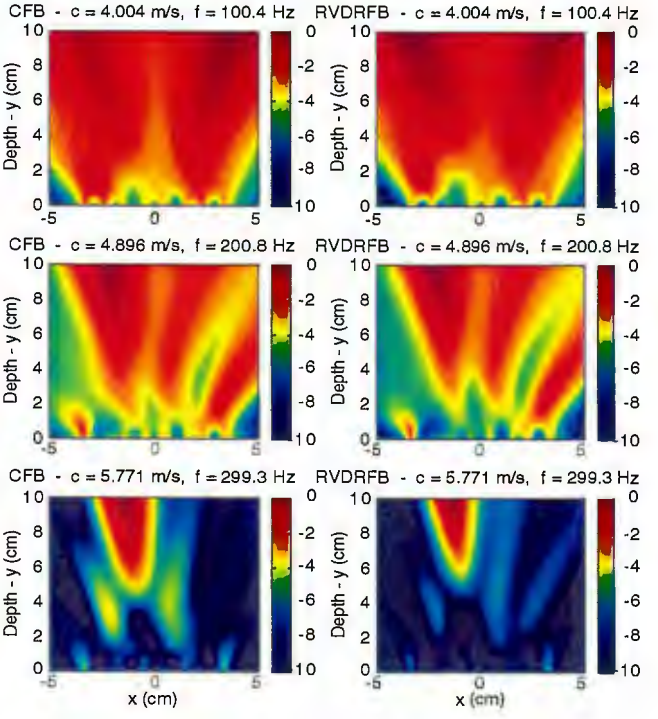

Figure B-7. Image of Data Set 902: 16 FFTs, 9 Channels Used at 100 Hz (Top) 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 902_16_1024.csd
Runname: 902_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 7.178
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 5.288
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.596
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.874
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.223
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.92
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

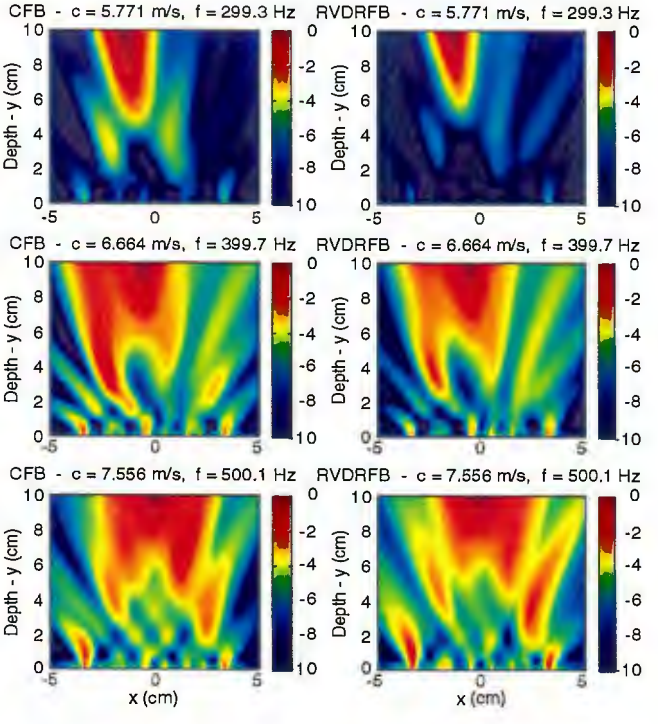

Figure B-8. Image of Data Set 902: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 902_32_512.csd
Runname: 902_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.086
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 10
RVDR Surface Normalization (dB): 4.34
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.235
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.581
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 6.485
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 4.843
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

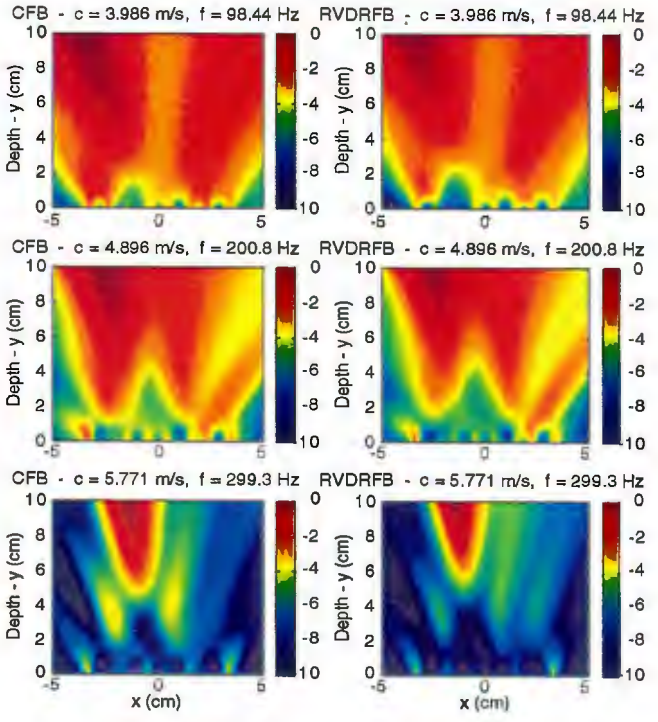

Figure B-9. Image of Data Set 902: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 902_32_512.csd
Runname: 902_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 6.485
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 4.843
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.827
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.803
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.927
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.692
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 0.9082

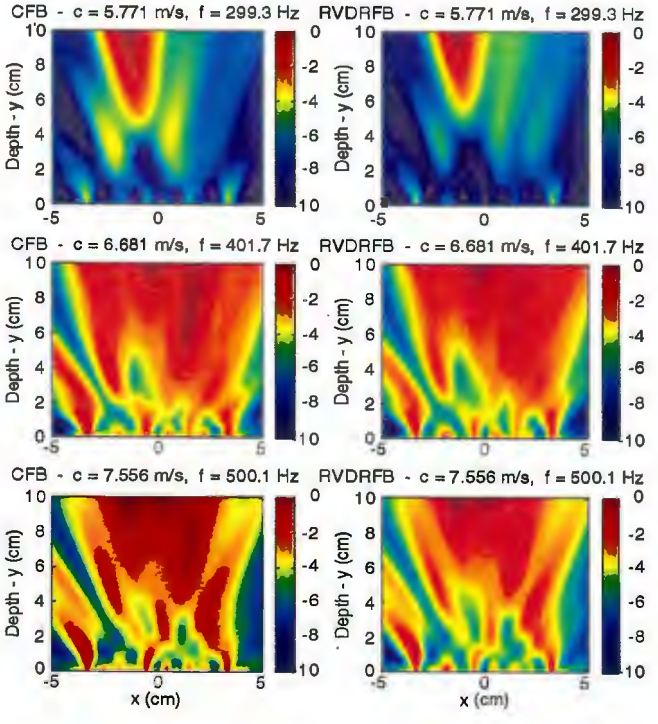

Figure B-10. Image of Data Set 902: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 902_64_256.csd
Runname: 902_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.798
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 4.045
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.549
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.791
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 5.873
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 4.49
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

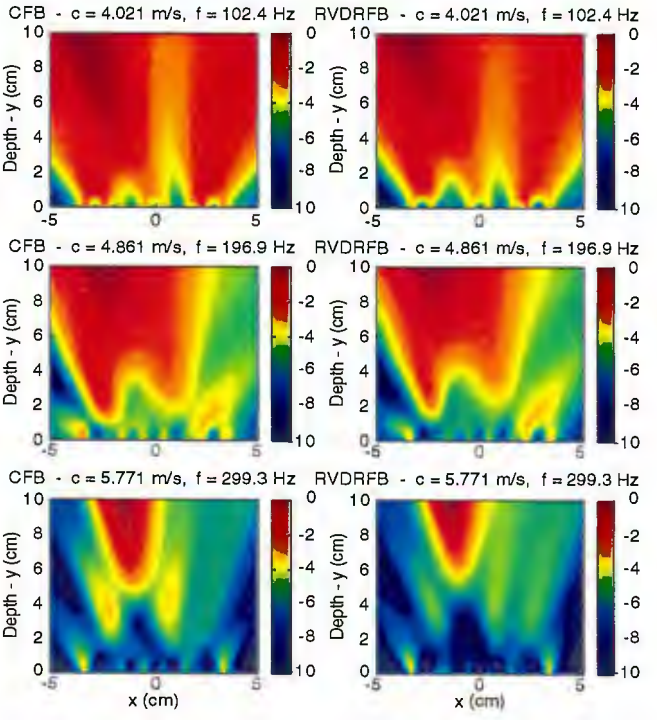

Figure B-11. Image of Data Set 902: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 902_64_256.csd
Runname: 902_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 5.873
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 4.49
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.651
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 0.1
RVDR Surface Normalization (dB): 1.67
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.089
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 1.653
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

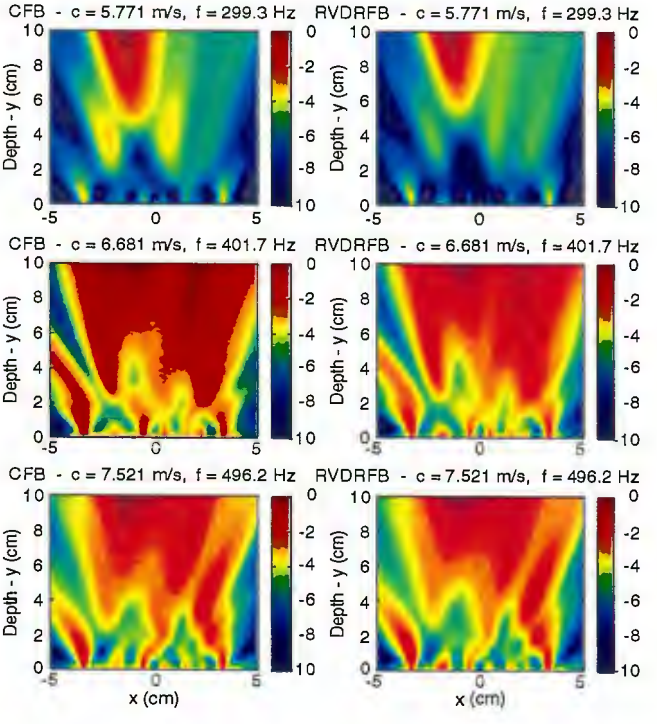

Figure B-12. Image of Data Set 902: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 903_16_1204.csd
Runname: 903_16_1204
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.461
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 9.596
RVDR Surface Normalization (dB): 6.004
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.087
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.936
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.762
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.158
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

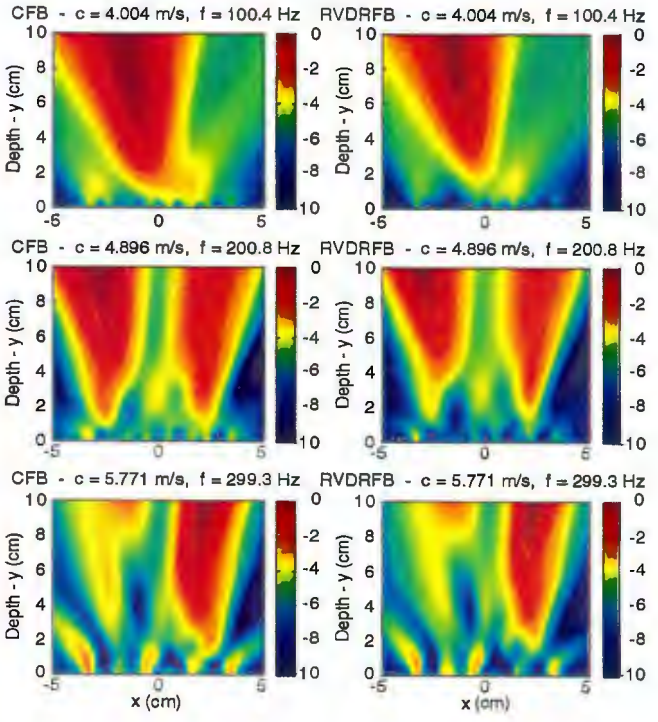

Figure B-13. Image of Data Set 903: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 903_16_1204.csd
Runname: 903_16_1204
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.762
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.158
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.351
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.271
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.76
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.058
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

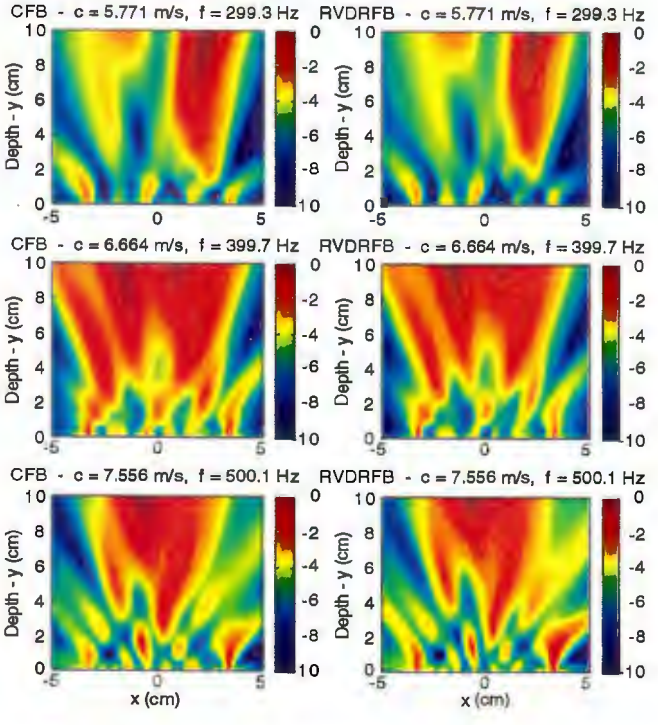

Figure B-14. Image of Data Set 903: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 903_32_512.csd
Runname: 903_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.814
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 9.798
RVDR Surface Normalization (dB): 5.331
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.688
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.848
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.264
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.862
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

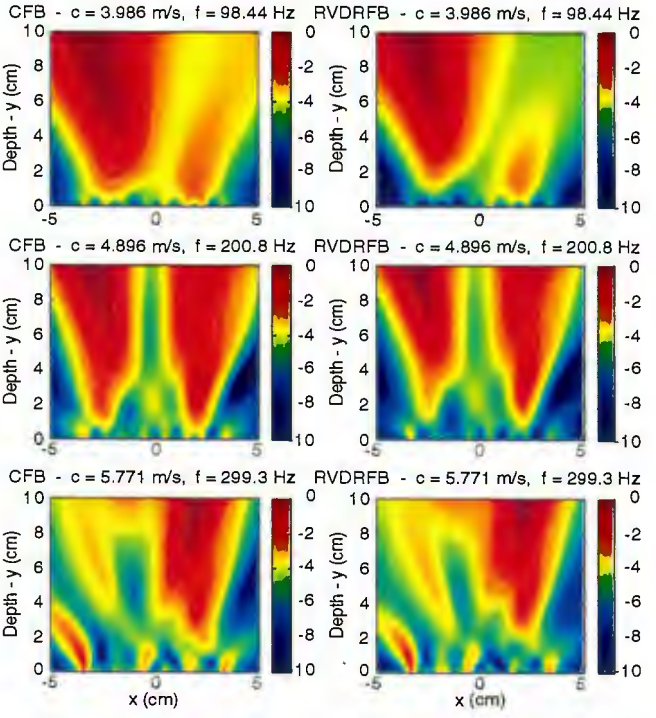

Figure B-15. Image of Data Set 903: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 903_32_512.csd
Runname: 903_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.264
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.862
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.433
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.446
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.35
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.053
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

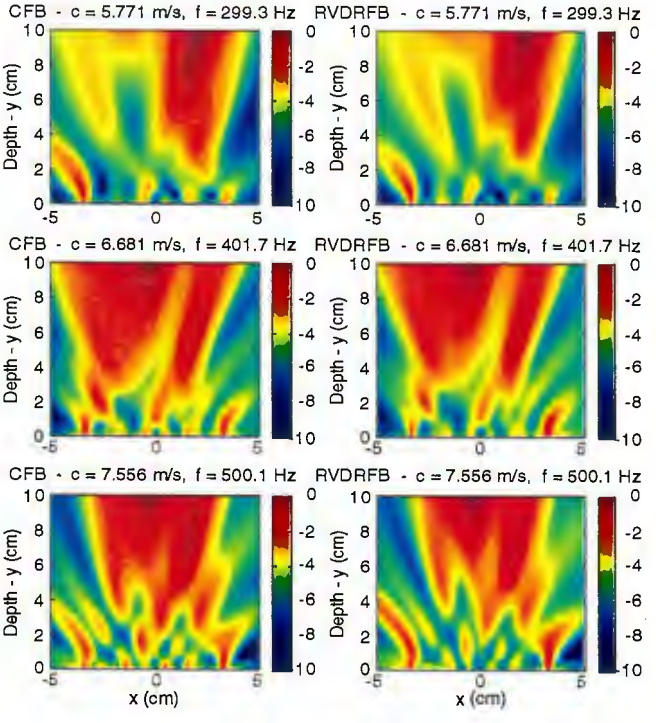

Figure B-16. Image of Data Set 903: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 903_64_256.csd
Runname: 903_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.294
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.924
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.323
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.746
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.592
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.703
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

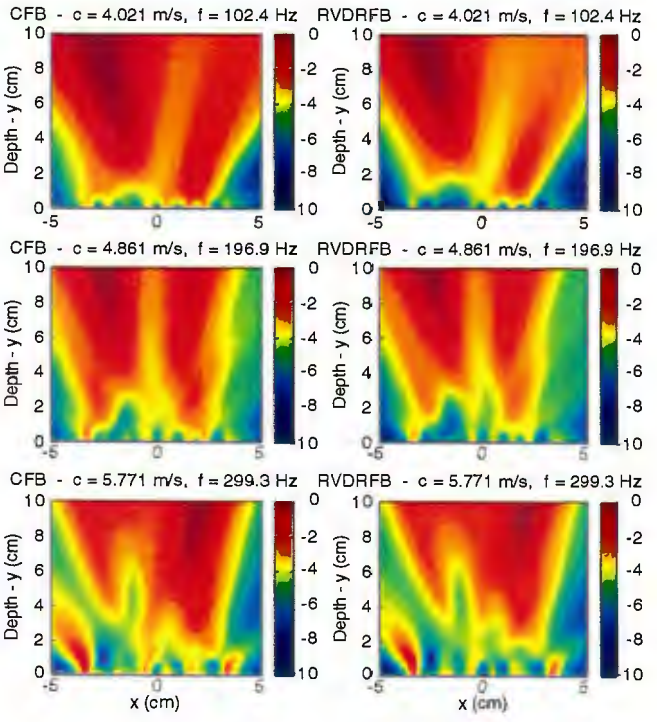

Figure B-17. Image of Data Set 903: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 903_64_256.csd
Runname: 903_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.592
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.703
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.831
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 6.161
RVDR Surface Normalization (dB): 1.918
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.396
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.566
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

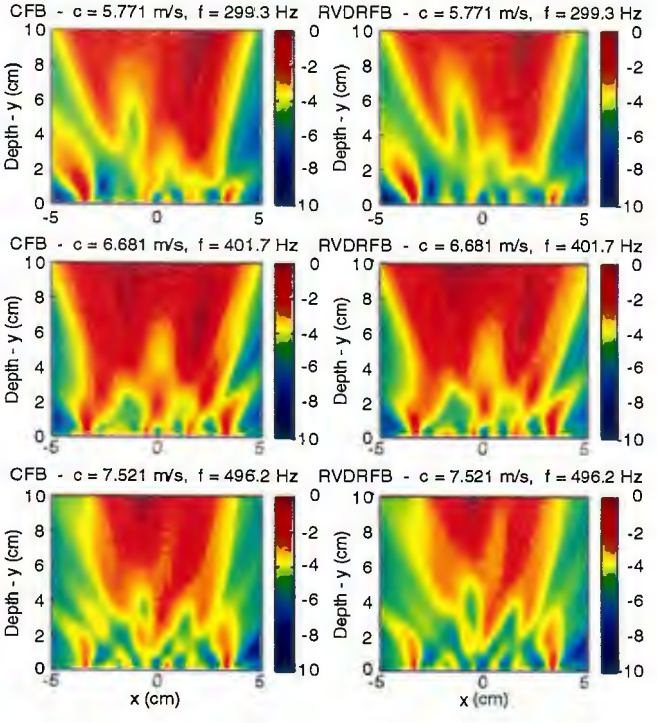

Figure B-18. Image of Data Set 903: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 904_16_1024.csd
Runname: 904_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.096
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 5.352
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.75
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 3.706
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.221
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.018
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

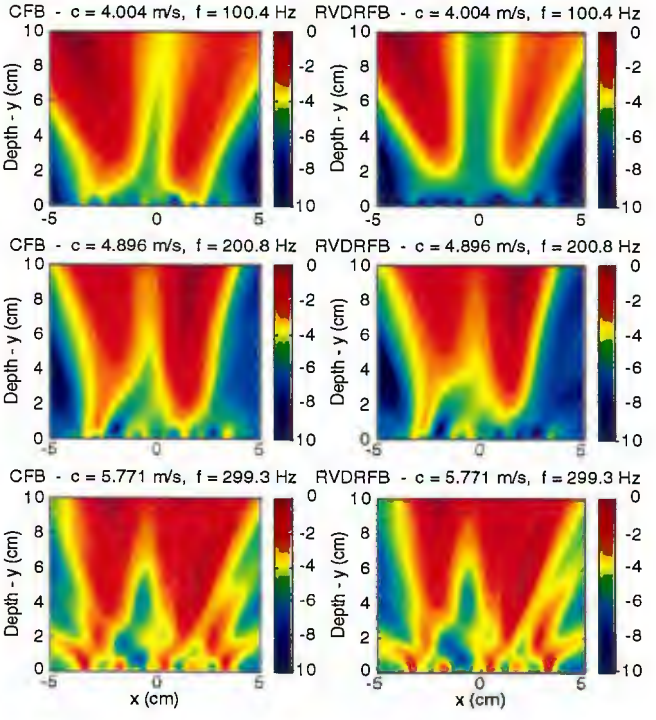

Figure B-19. Image of Data Set 904: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 904_16_1024.csd
Runname: 904_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.221
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.018
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.935
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.548
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.812
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.962
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

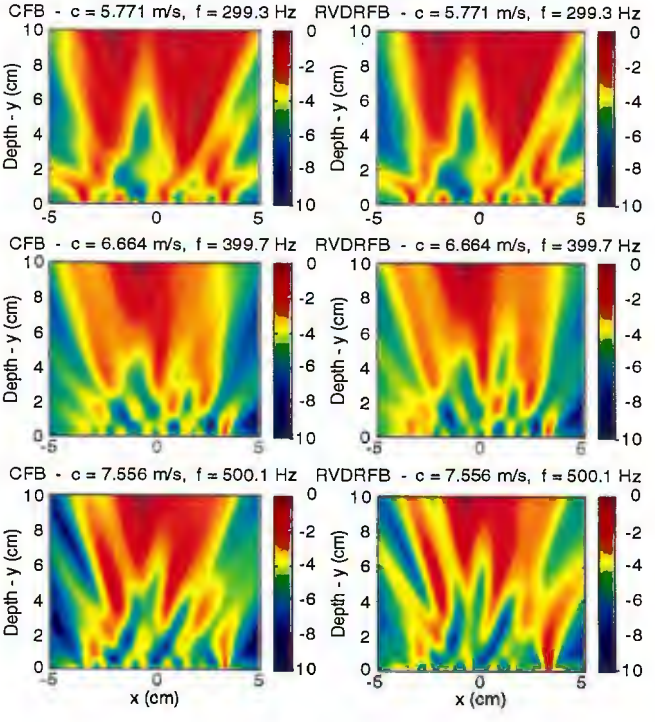

Figure B-20. Image of Data Set 904: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 904_32_512.csd
Runname: 904_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.523
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.737
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.005
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 3.217
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.78
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 4.343
RVDR Surface Normalization (dB): 1.831
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 4.343

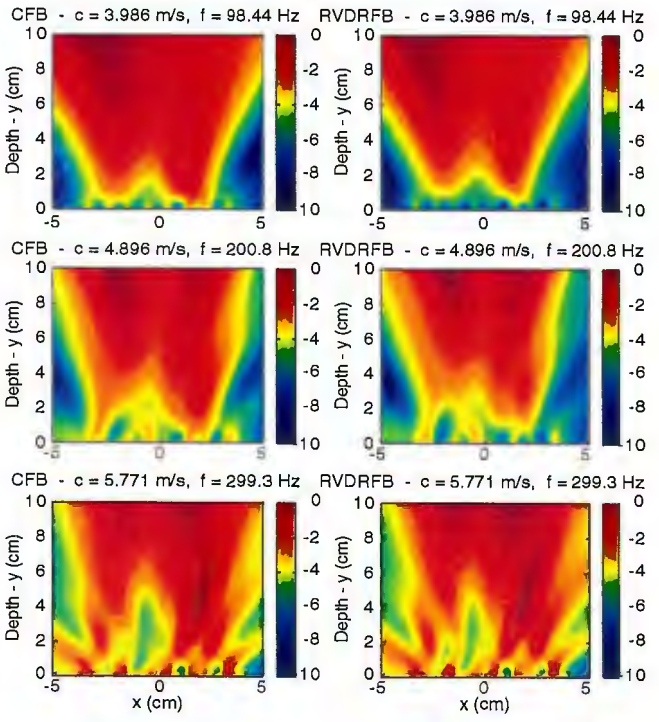

Figure B-21. Image of Data Set 904: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 904_32_512.csd
Runname: 904_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.78
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 4.343
RVDR Surface Normalization (dB): 1.831
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 4.343

Frequency 400 Hz
CFB Surface Normalization (dB): 3.978
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.575
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.623
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.937
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

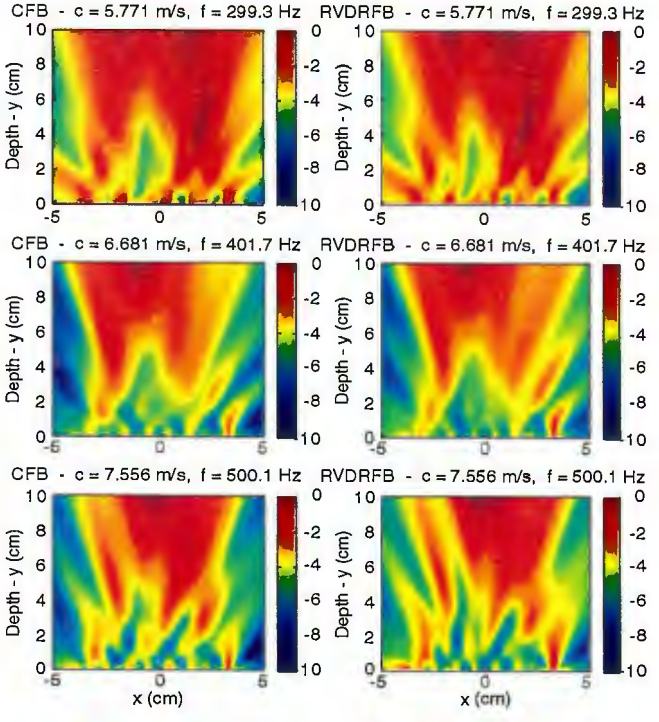

Figure B-22. Image of Data Set 904: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 904_64_256.csd
Runname: 904_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.008
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 8.182
RVDR Surface Normalization (dB): 4.23
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.678
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 6.969
RVDR Surface Normalization (dB): 3.24
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.258
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 4.343
RVDR Surface Normalization (dB): 2.347
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 4.747

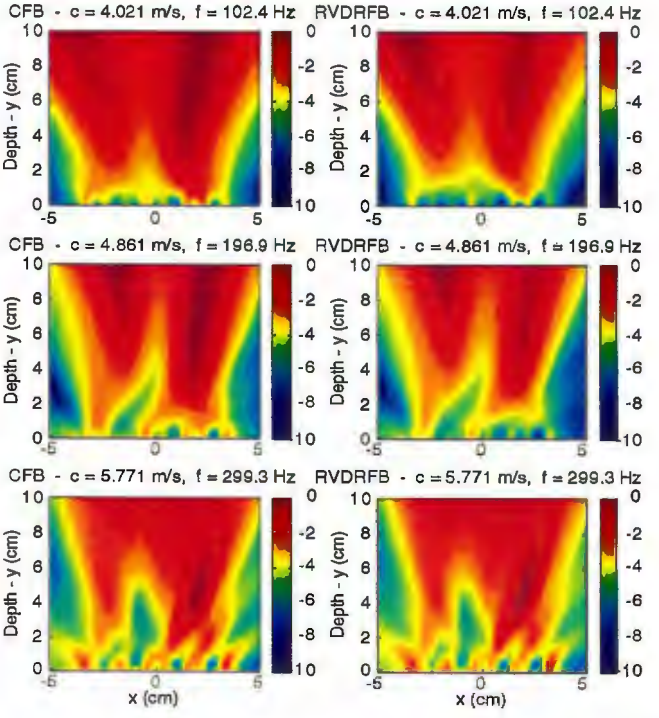

Figure B-23. Image of Data Set 904: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 904_64_256.csd
Runname: 904_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.258
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 4.343
RVDR Surface Normalization (dB): 2.347
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 4.747

Frequency 400 Hz
CFB Surface Normalization (dB): 3.752
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.762
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.142
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.179
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

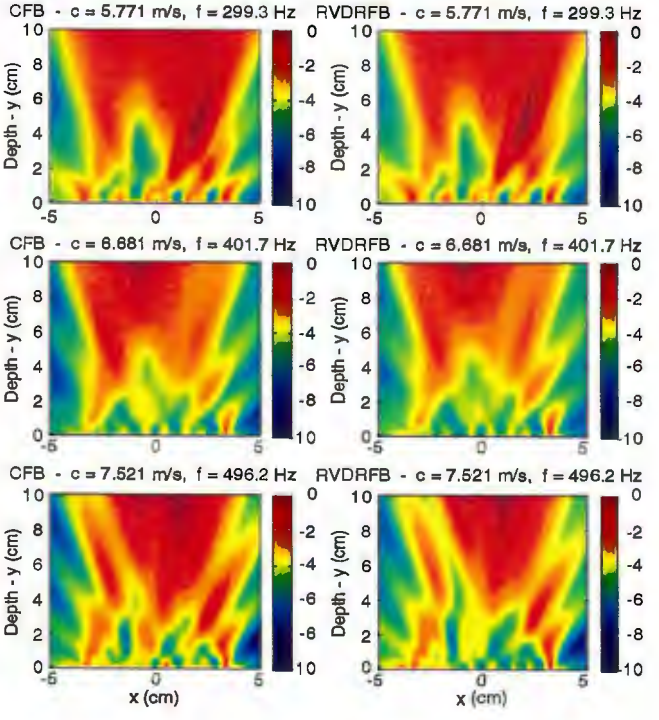

Figure B-24. Image of Data Set 904: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 905_16_1024.csd
Runname: 905_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.607
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.57
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 9.798

Frequency 200 Hz
CFB Surface Normalization (dB): 5.335
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 4.747
RVDR Surface Normalization (dB): 4.408
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 4.949

Frequency 300 Hz
CFB Surface Normalization (dB): 3.496
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.453
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

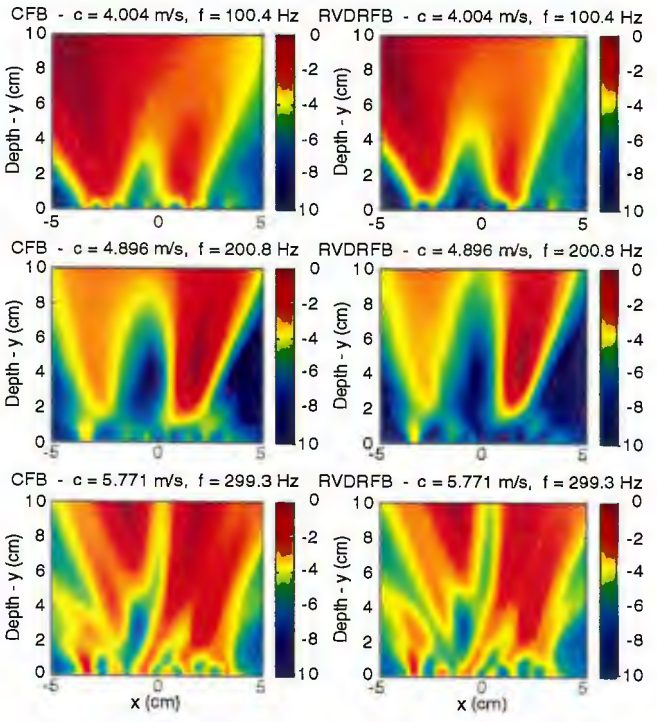

Figure B-25. Image of Data Set 905: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 905_16_1024.csd
Runname: 905_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.496
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.453
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.276
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.242
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.199
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 6.363
RVDR Surface Normalization (dB): 1.467
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 4.949

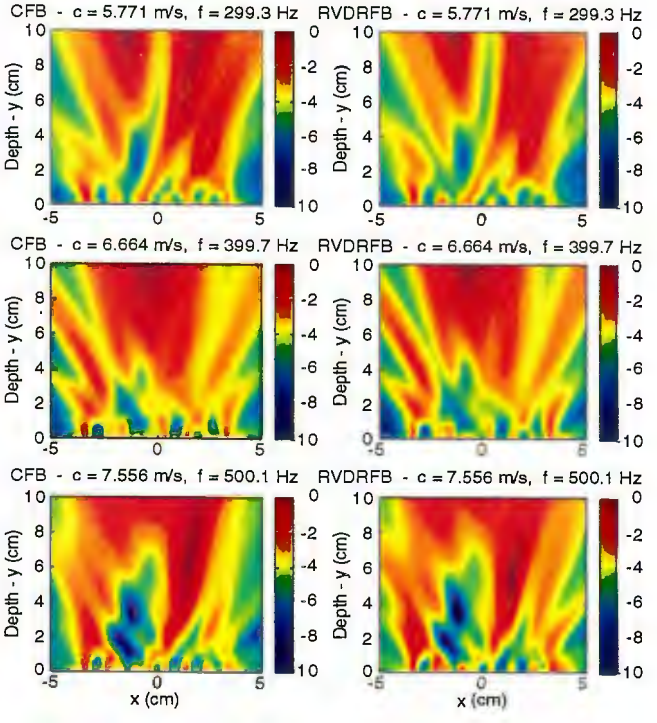

Figure B-26. Image of Data Set 905: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 905_32_512.csd
Runname: 905_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.482
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 5.402
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.691
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 4.141
RVDR Surface Normalization (dB): 3.8
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 4.343

Frequency 300 Hz
CFB Surface Normalization (dB): 3.354
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.252
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 9.798

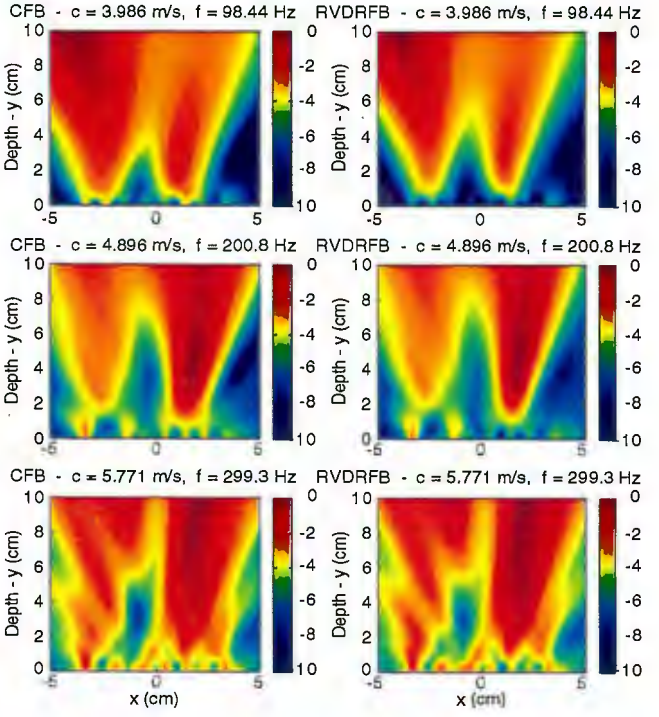

Figure B-27. Image of Data Set 905: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 905_32_512.csd
Runname: 905_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.354
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.252
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 9.798

Frequency 400 Hz
CFB Surface Normalization (dB): 3.681
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.987
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.478
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 5.151
RVDR Surface Normalization (dB): 1.218
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 4.949

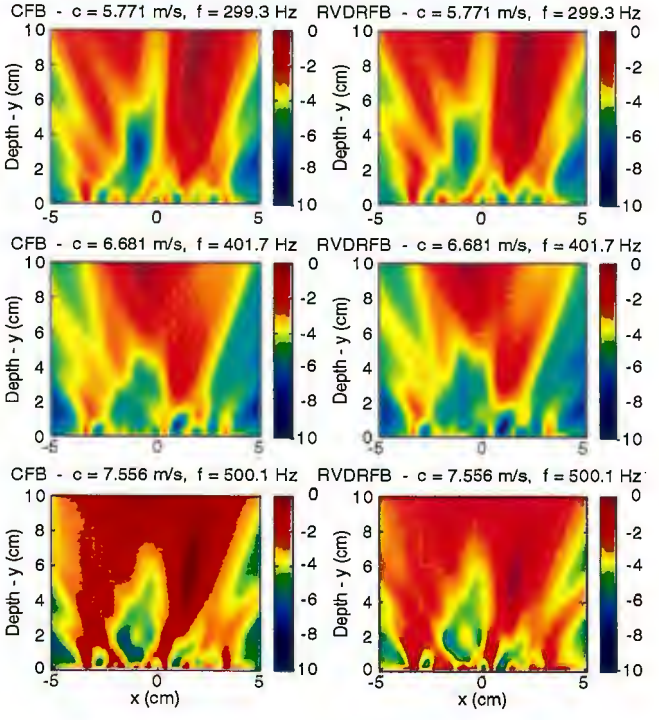

Figure B-28. Image of Data Set 905: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 905_64_256.csd
Runname: 905_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.126
CFB Surface Maximum Location
X (cm): -4.184 Y (cm): 10
RVDR Surface Normalization (dB): 5.143
RVDR Surface Maximum Location
X (cm): -4.592 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.269
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 4.343
RVDR Surface Normalization (dB): 3.068
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 4.343

Frequency 300 Hz
CFB Surface Normalization (dB): 3.623
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.541
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

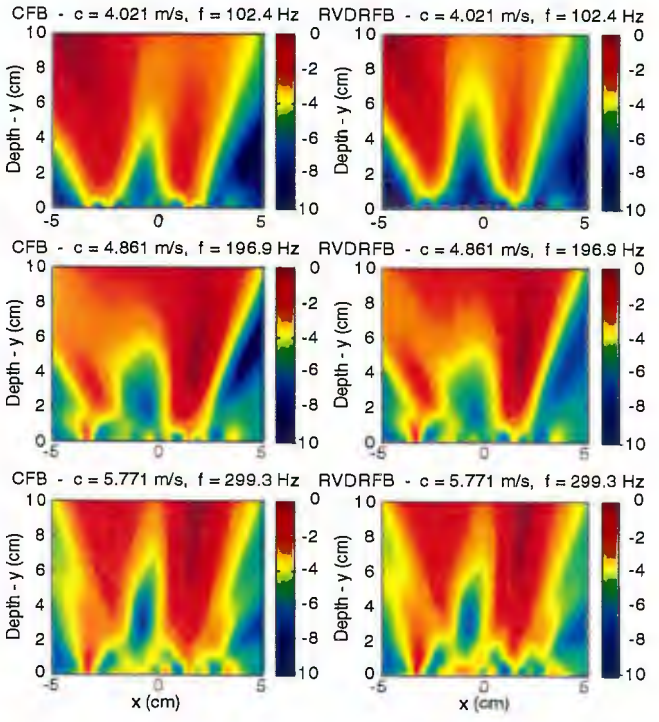

Figure B-29. Image of Data Set 905: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 905_64_256.csd
Runname: 905_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.623
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.541
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.111
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.579
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.514
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 6.969
RVDR Surface Normalization (dB): 1.409
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

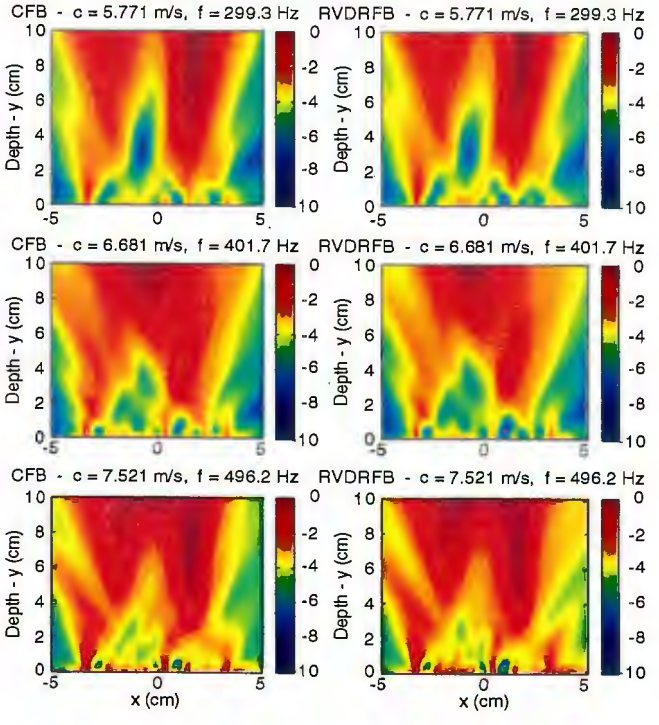

Figure B-30. Image of Data Set 905: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 906_16_1024.csd
Runname: 906_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.259
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 5.758
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.899
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.336
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.846
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 9.596
RVDR Surface Normalization (dB): 2.318
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

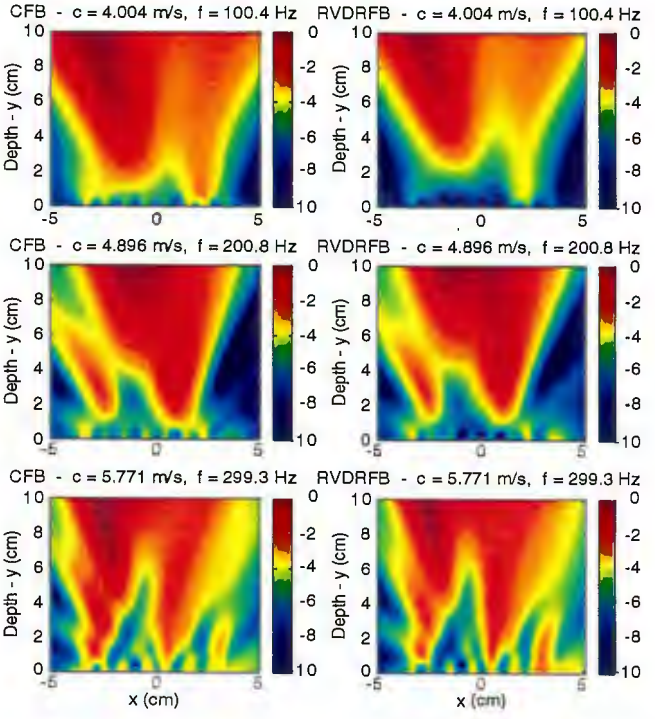

Figure B-31. Image of Data Set 906: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 906_16_1024.csd
Runname: 906_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.846
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 9.596
RVDR Surface Normalization (dB): 2.318
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.377
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.6
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.192
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.247
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

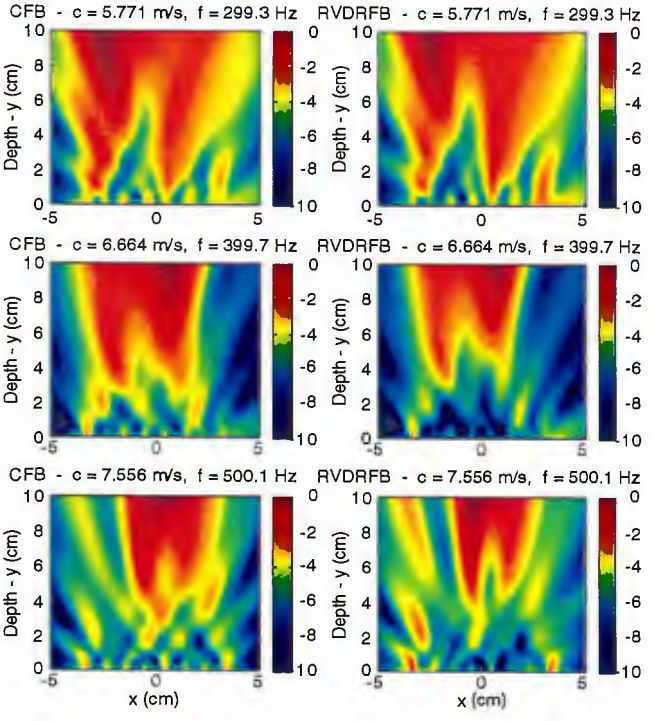

Figure B-32. Image of Data Set 906: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 906_32_512.csd
Runname: 906_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.848
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 5.282
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.795
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.992
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.369
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.291
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

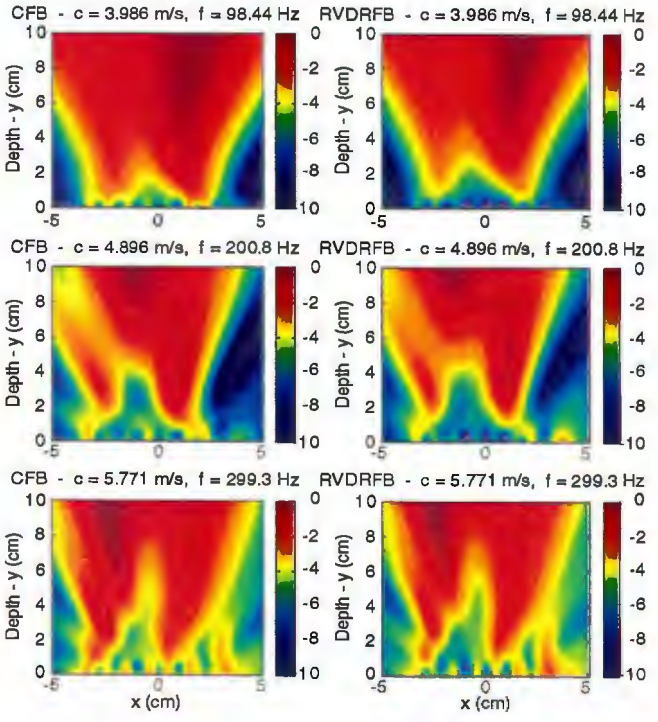

Figure B-33. Image of Data Set 906: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 906_32_512.csd
Runname: 906_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.369
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.291
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.934
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 3.102
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.345
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.204
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

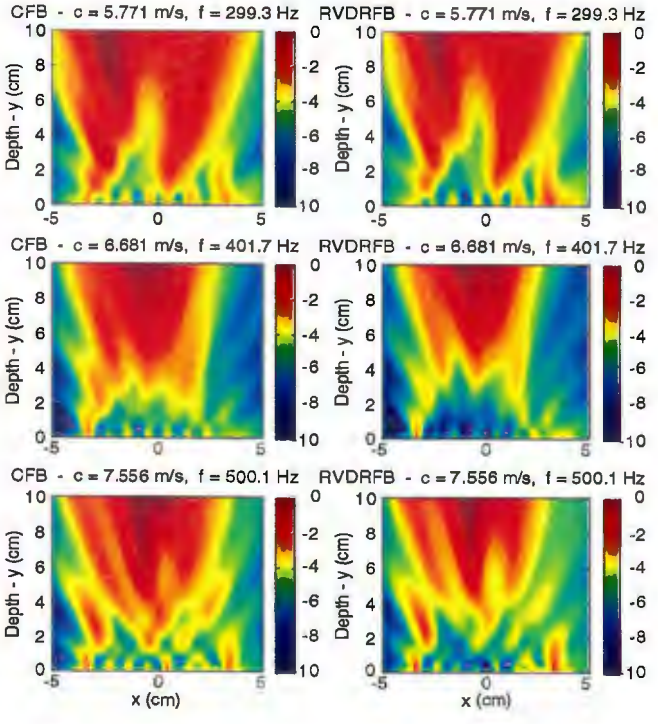

Figure B-34. Image of Data Set 906: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 906_64_256.csd
Runname: 906_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.354
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 4.731
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.194
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 3.485
RVDR Surface Maximum Location
X (cm): 0.102 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.436
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.711
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

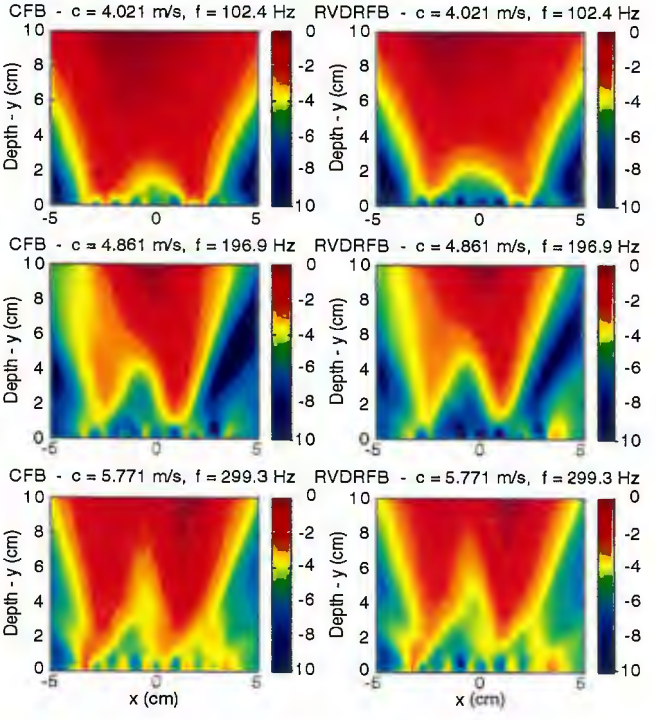

Figure B-35. Image of Data Set 906: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 906_64_256.csd
Runname: 906_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.436
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.711
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.612
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.914
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.716
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 2.204
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

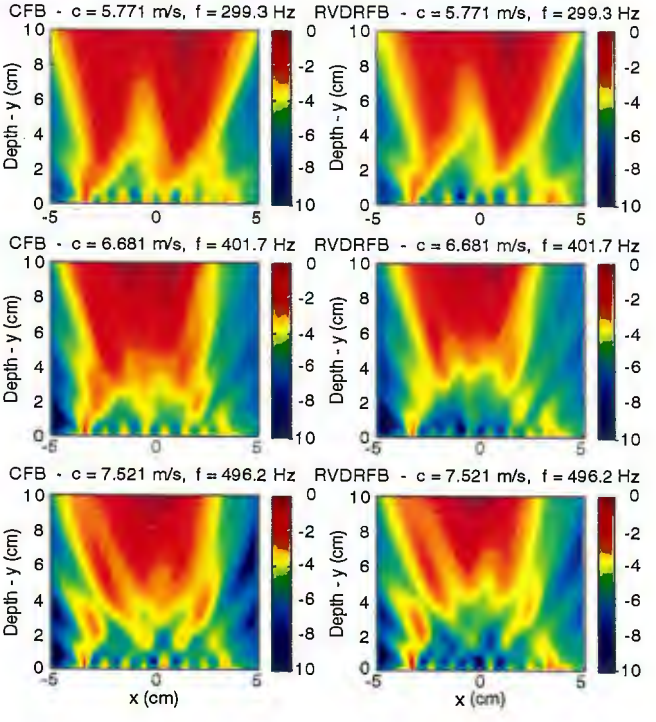

Figure B-36. Image of Data Set 906: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 907_16_1024.csd
Runname: 907_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.893
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 6.247
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.833
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 3.651
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.203
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.516
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

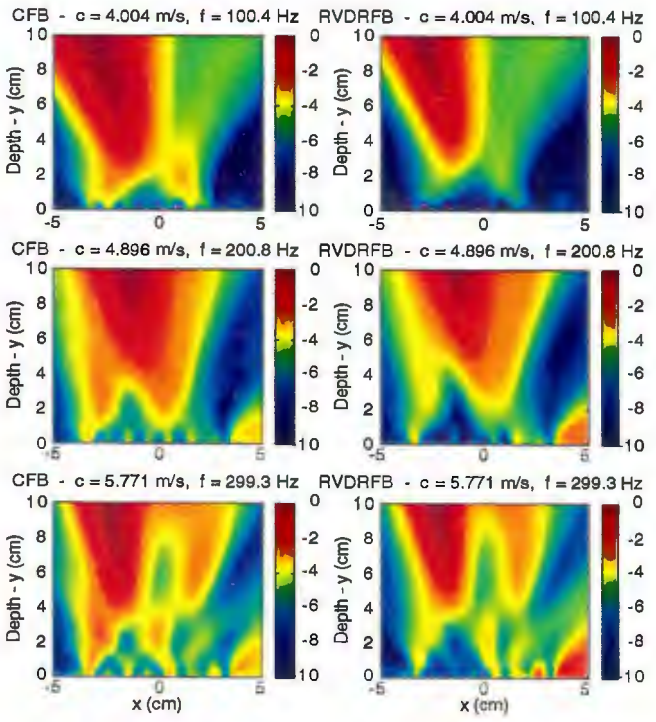

Figure B-37. Image of Data Set 907: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 907_16_1024.csd
Runname: 907_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.203
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.516
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 5.594
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 3.789
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.922
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.172
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

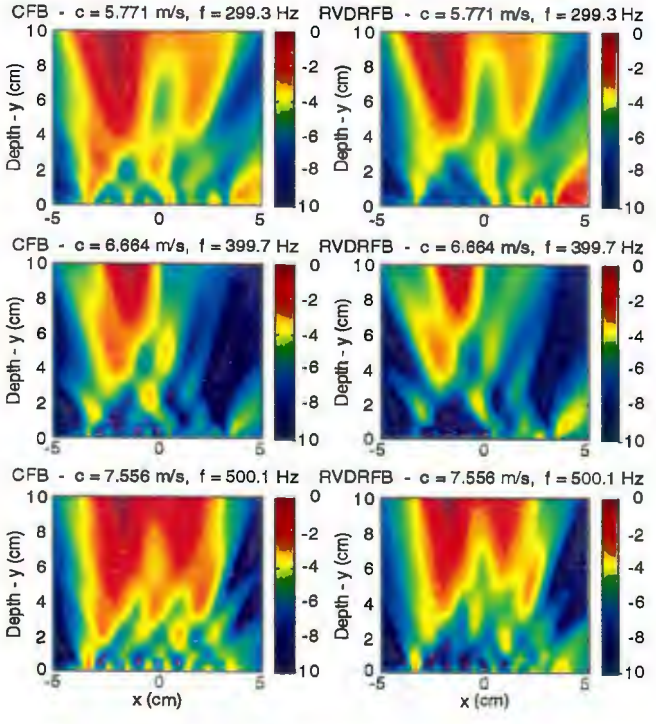

Figure B-38. Image of Data Set 907: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 907_32_512.csd
Runname: 907_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.185
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 6.541
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.528
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.203
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.095
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.576
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

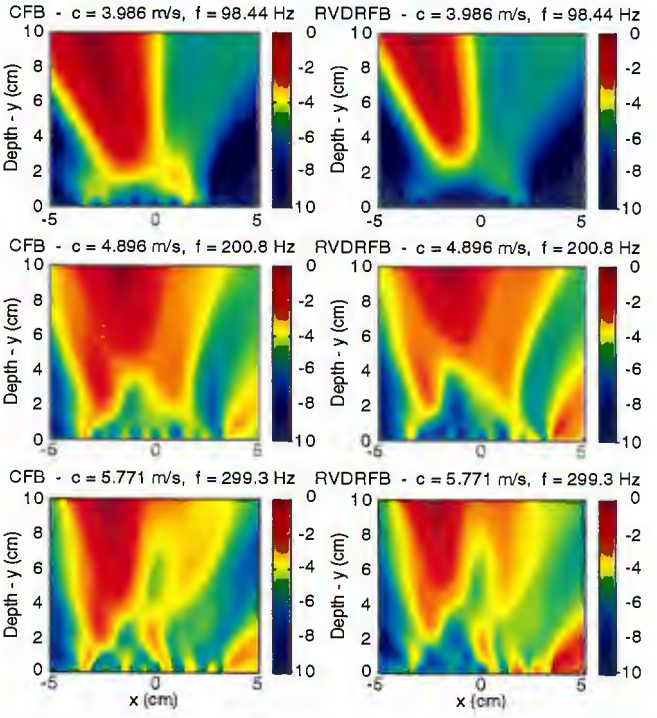

Figure B-39. Image of Data Set 907: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 907_32_512.csd
Runname: 907_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.095
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.576
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.299
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.721
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.679
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.833
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

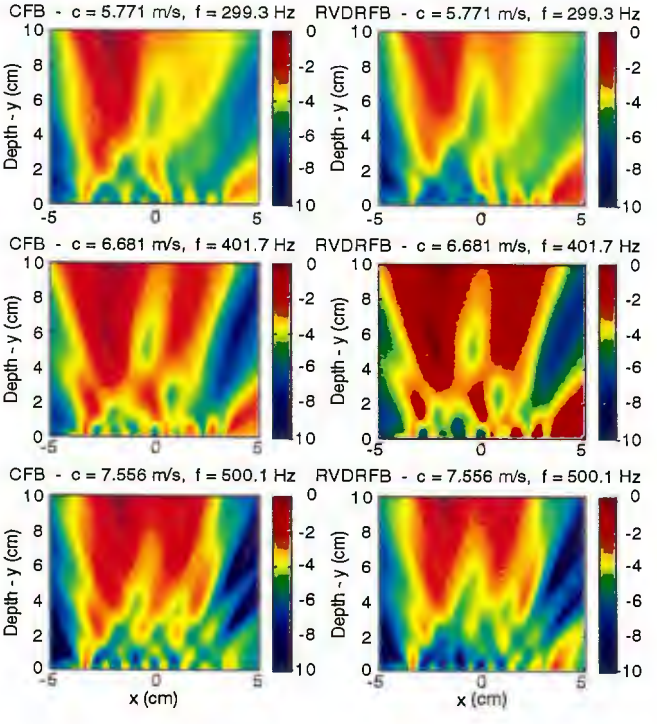

Figure B-40. Image of Data Set 907: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 907_64_256.csd
Runname: 907_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.653
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 6.291
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.496
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 4.202
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.773
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.37
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

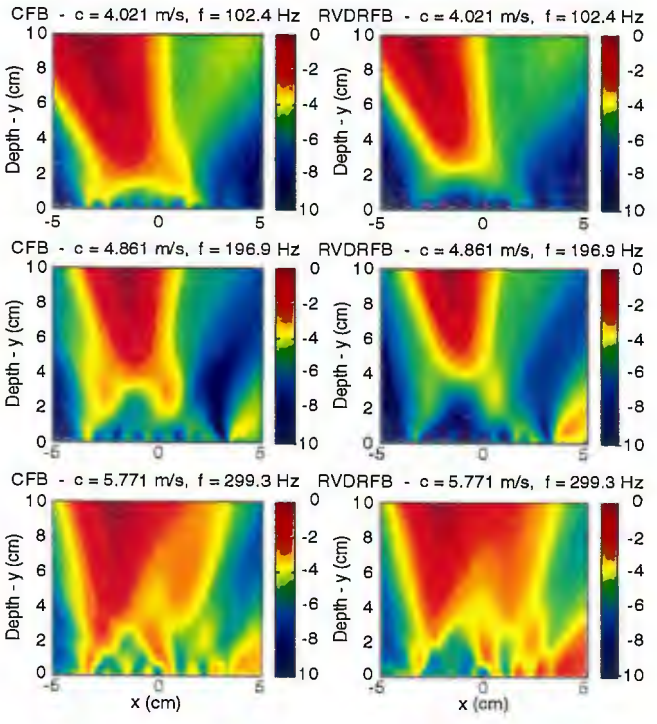

Figure B-41. Image of Data Set 907: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 907_64_256.csd
Runname: 907_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.773
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.37
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.391
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.977
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.191
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.364
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

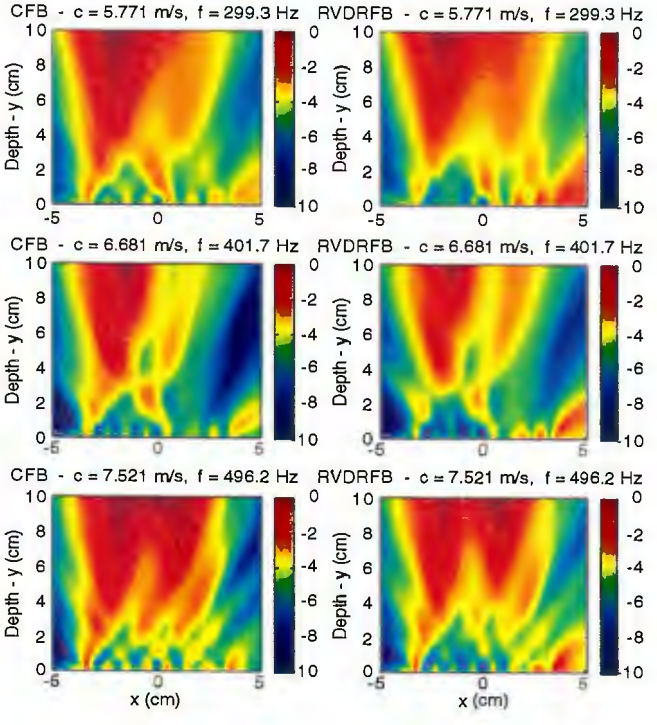

Figure B-42. Image of Data Set 907: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 908_16_1024.csd
Runname: 908_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.922
CFB Surface Maximum Location
X (cm): -5 Y (cm): 9.596
RVDR Surface Normalization (dB): 5.023
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 9.798

Frequency 200 Hz
CFB Surface Normalization (dB): 3.615
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 2.711
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.775
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 3.022
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

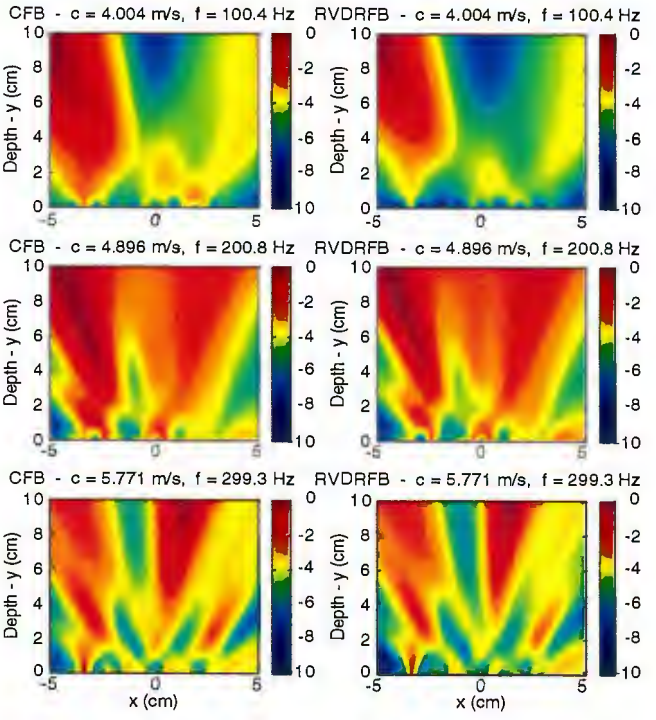

Figure B-43. Image of Data Set 908: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 908_16_1024.csd
Runname: 908_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.775
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 3.022
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.644
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 9.798
RVDR Surface Normalization (dB): 3.015
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 8.99

Frequency 500 Hz
CFB Surface Normalization (dB): 3.153
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.152
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

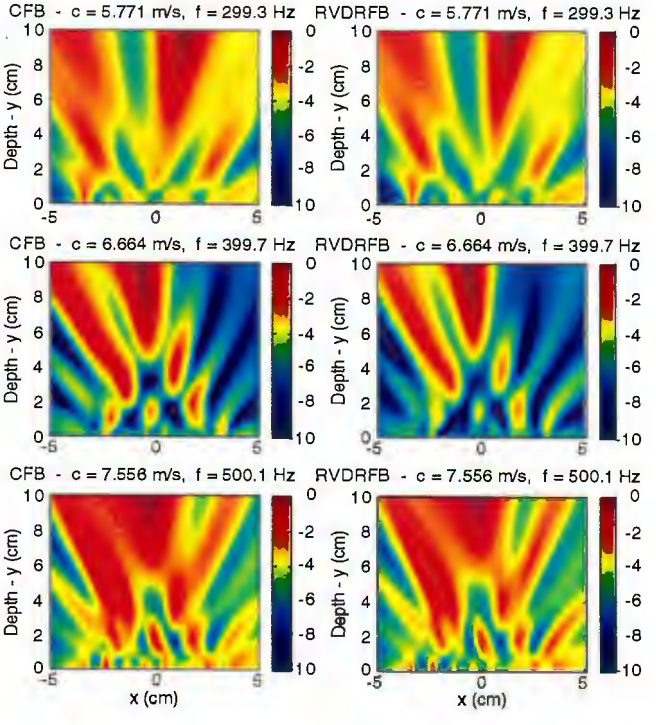

Figure B-44. Image of Data Set 908: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 908_32_512.csd
Runname: 908_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.351
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.913
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.335
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 5.151
RVDR Surface Normalization (dB): 3.86
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 5.151

Frequency 300 Hz
CFB Surface Normalization (dB): 2.876
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.37
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

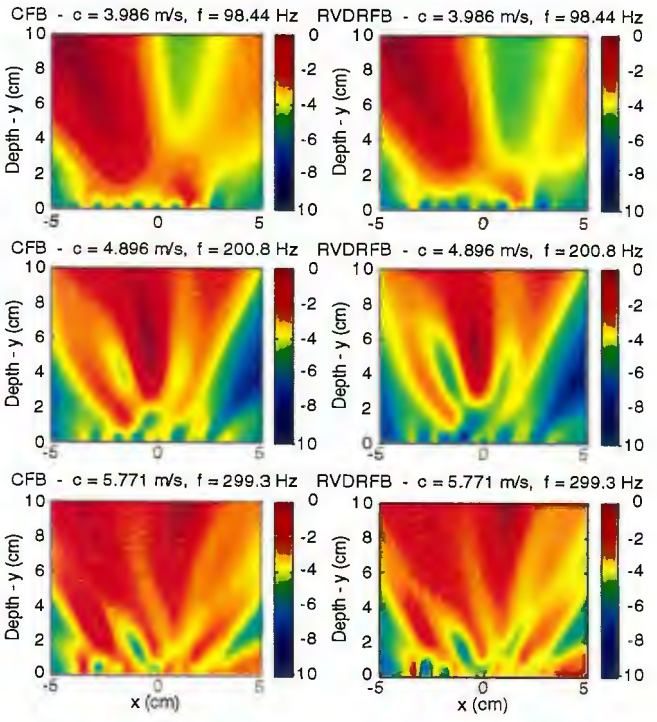

Figure B-45. Image of Data Set 908: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 908_32_512.csd
Runname: 908_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.876
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.37
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.098
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 4.545
RVDR Surface Normalization (dB): 2.656
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 4.343

Frequency 500 Hz
CFB Surface Normalization (dB): 3.167
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.249
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

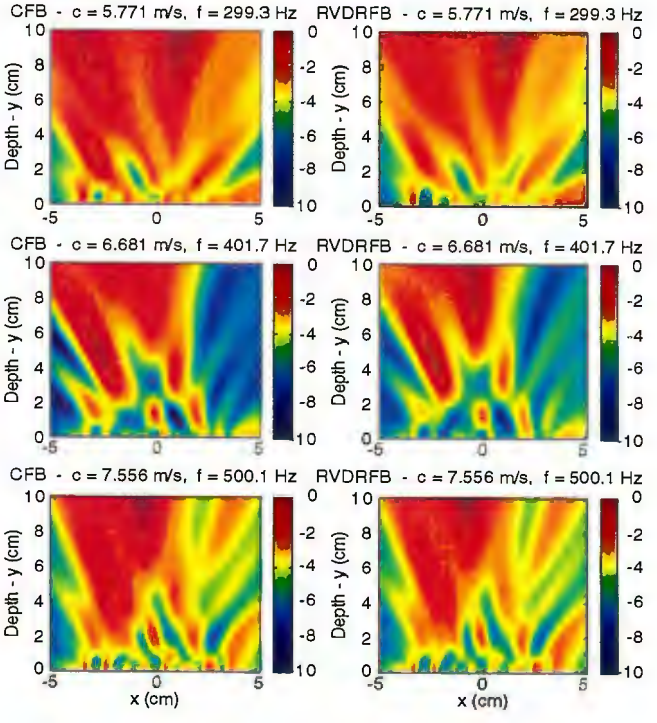

Figure B-46. Image of Data Set 908: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 908_64_256.csd
Runname: 908_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.767
CFB Surface Maximum Location
X (cm): -4.592 Y (cm): 10
RVDR Surface Normalization (dB): 5.253
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.577
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 5.353
RVDR Surface Normalization (dB): 3.007
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 5.353

Frequency 300 Hz
CFB Surface Normalization (dB): 2.391
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 2.929
RVDR Surface Normalization (dB): 1.769
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

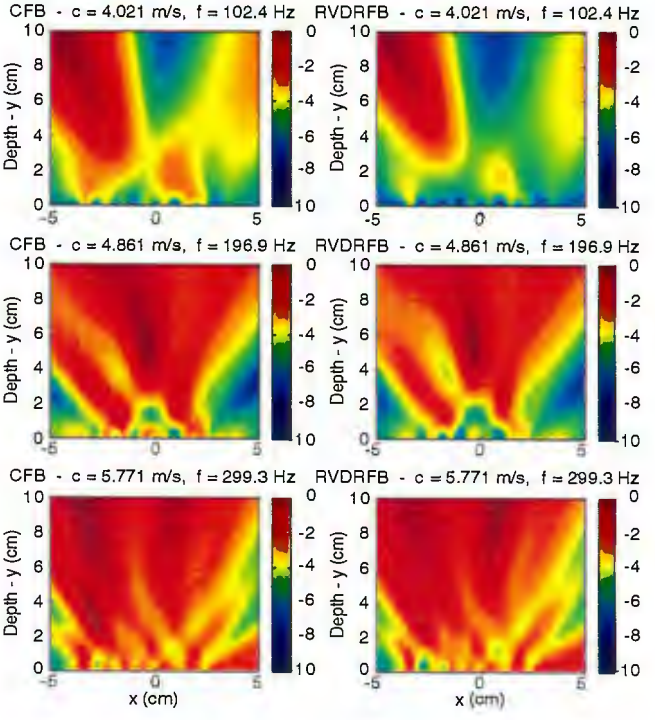

Figure B-47. Image of Data Set 908: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 908_64_256.csd
Runname: 908_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.391
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 2.929
RVDR Surface Normalization (dB): 1.769
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.742
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.313
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 9.394

Frequency 500 Hz
CFB Surface Normalization (dB): 3.231
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.724
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

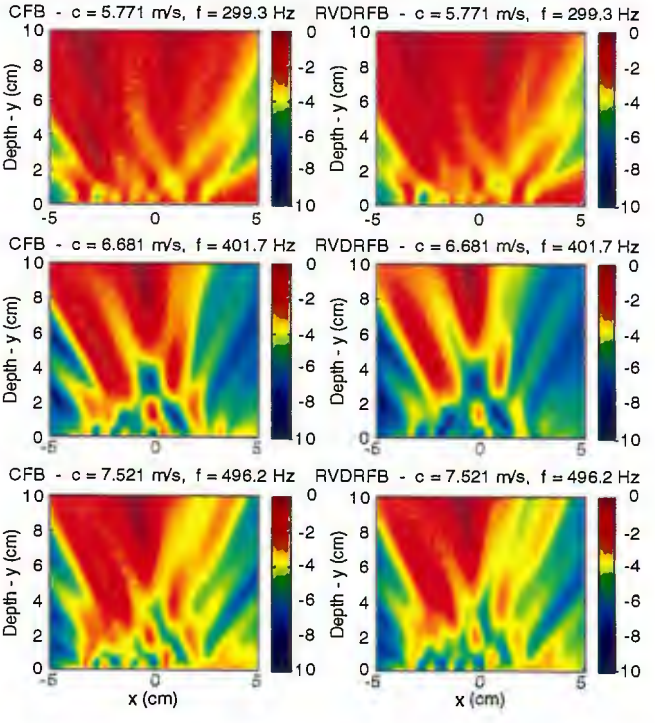

Figure B-48. Image of Data Set 908: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 909_16_1024.csd
Runname: 909_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.717
CFB Surface Maximum Location
X (cm): -5 Y (cm): 7.98
RVDR Surface Normalization (dB): 4.264
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 7.98

Frequency 200 Hz
CFB Surface Normalization (dB): 5.451
CFB Surface Maximum Location
X (cm): -4.184 Y (cm): 10
RVDR Surface Normalization (dB): 4.587
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.822
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.956
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

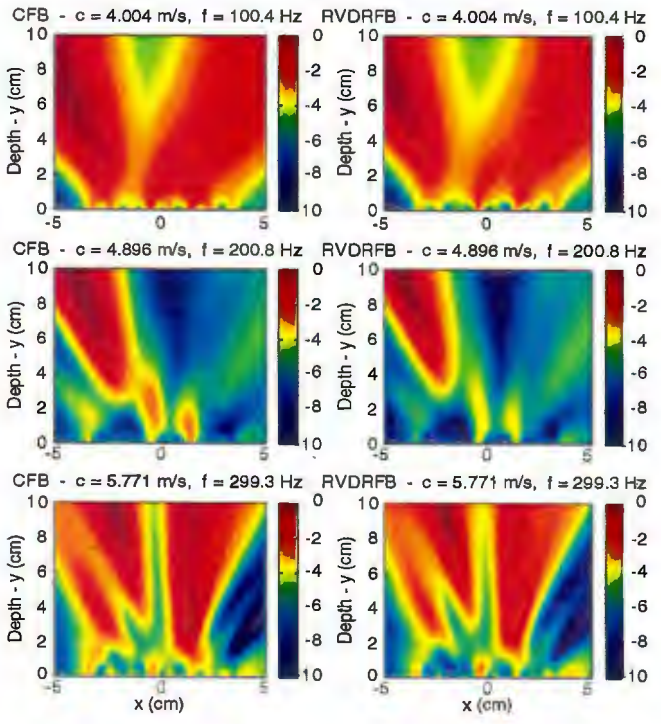

Figure B-49. Image of Data Set 909: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 909_16_1024.csd
Runname: 909_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.822
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.956
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.861
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.786
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.388
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 3.303
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

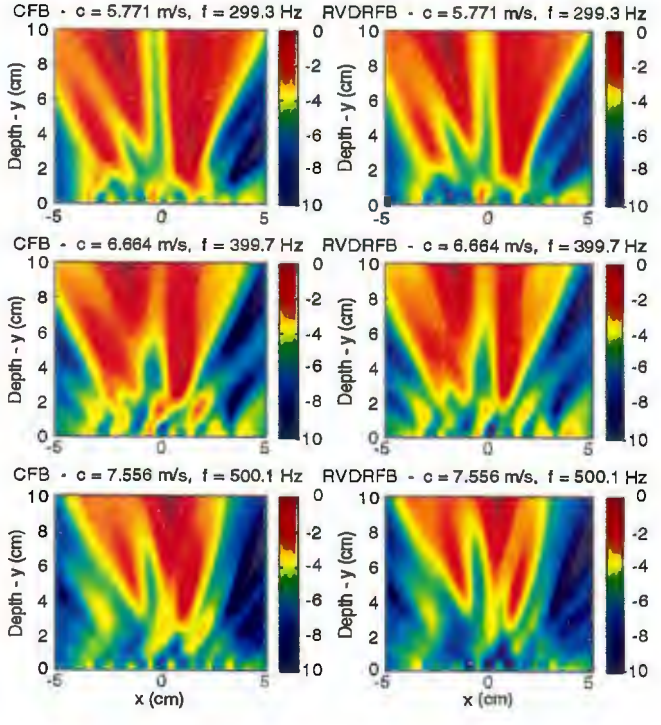

Figure B-50. Image of Data Set 909: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 909_32_512.csd
Runname: 909_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.561
CFB Surface Maximum Location
X (cm): 5 Y (cm): 10
RVDR Surface Normalization (dB): 3.888
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.84
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 7.576
RVDR Surface Normalization (dB): 4.103
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 8.384

Frequency 300 Hz
CFB Surface Normalization (dB): 3.567
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 3.535
RVDR Surface Normalization (dB): 2.644
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 3.535

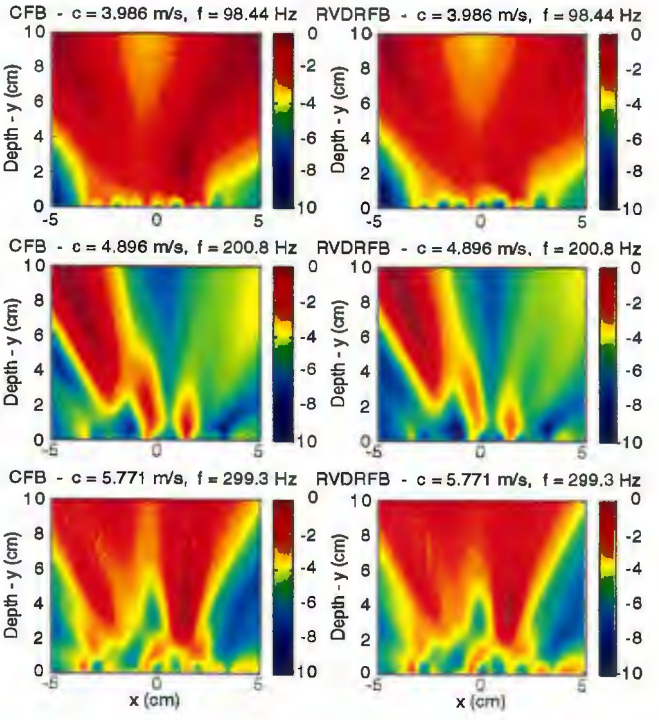

Figure B-51. Image of Data Set 909: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 909_32_512.csd
Runname: 909_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.567
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 3.535
RVDR Surface Normalization (dB): 2.644
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 3.535

Frequency 400 Hz
CFB Surface Normalization (dB): 4.426
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.526
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.686
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 2.358
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

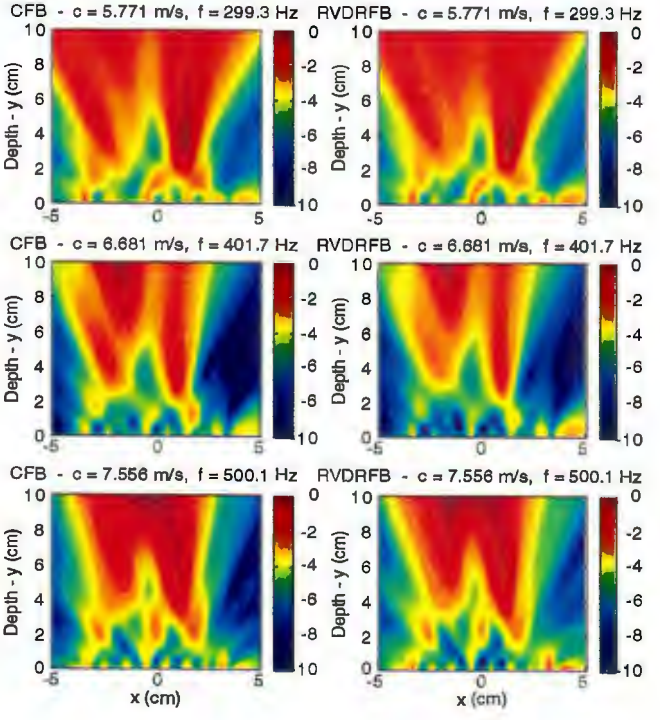

Figure B-52. Image of Data Set 909: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 909_64_256.csd
Runname: 909_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.649
CFB Surface Maximum Location
X (cm): 5 Y (cm): 9.394
RVDR Surface Normalization (dB): 3.674
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 8.788

Frequency 200 Hz
CFB Surface Normalization (dB): 4.875
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 8.364
RVDR Surface Normalization (dB): 4.187
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 8.588

Frequency 300 Hz
CFB Surface Normalization (dB): 3.431
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 3.737
RVDR Surface Normalization (dB): 2.646
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 3.535

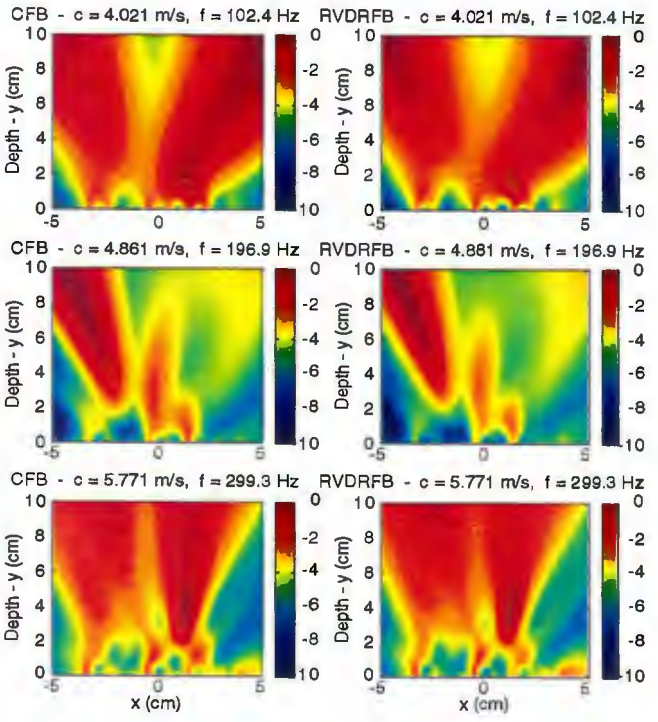

Figure B-53. Image of Data Set 909: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 909_64_256.csd
Runname: 909_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.431
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 3.737
RVDR Surface Normalization (dB): 2.646
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 3.535

Frequency 400 Hz
CFB Surface Normalization (dB): 3.482
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.623
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.998
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.301
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

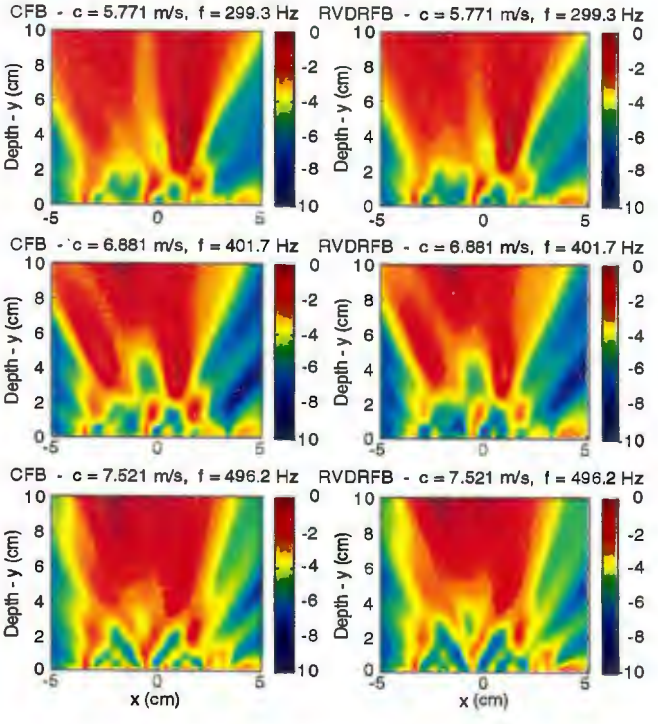

Figure B-54. Image of Data Set 909: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 910_16_1024.csd
Runname: 910_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.677
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 1.716
RVDR Surface Normalization (dB): 3.986
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 8.384

Frequency 200 Hz
CFB Surface Normalization (dB): 4.38
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.869
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.932
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 4.285
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

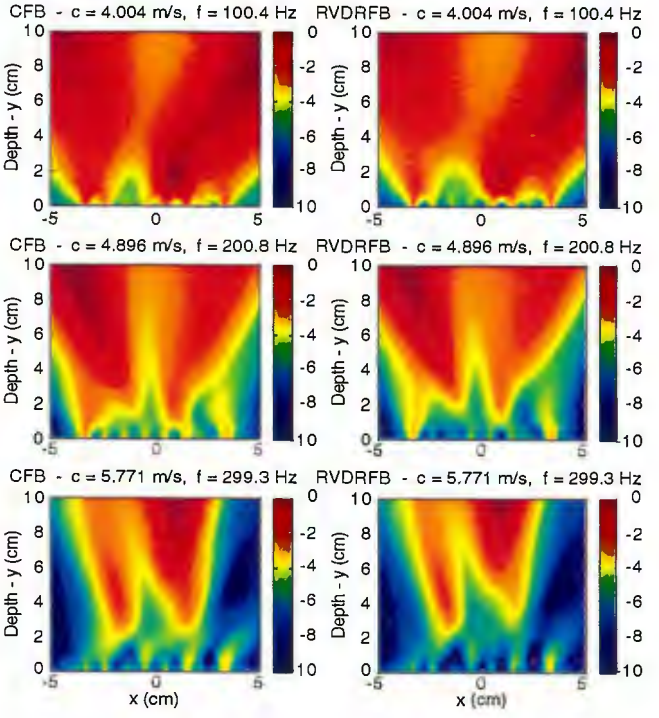

Figure B-55. Image of Data Set 910: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 910_16_1024.csd
Runname: 910_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.932
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 4.285
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.088
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.753
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.916
CFB Surface Maximum Location
X (cm): 0.102 Y (cm): 10
RVDR Surface Normalization (dB): 2.236
RVDR Surface Maximum Location
X (cm): 0.102 Y (cm): 10

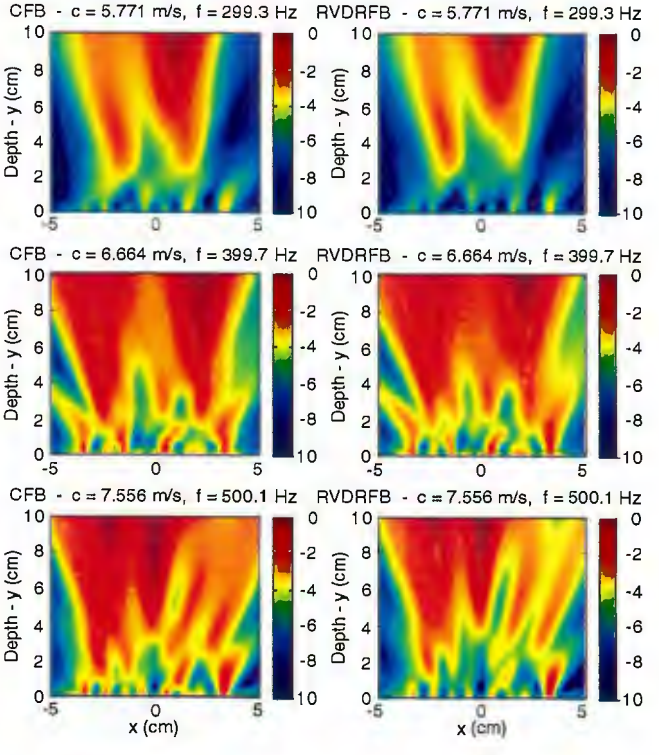

Figure B-56. Image of Data Set 910: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 910_32_512.csd
Runname: 910_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.03
CFB Surface Maximum Location
X (cm): -4.796 Y (cm): 10
RVDR Surface Normalization (dB): 4.344
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.453
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 3.976
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.69
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 4.31
RVDR Surface Maximum Location
X (cm): 0 9184 Y (cm): 10

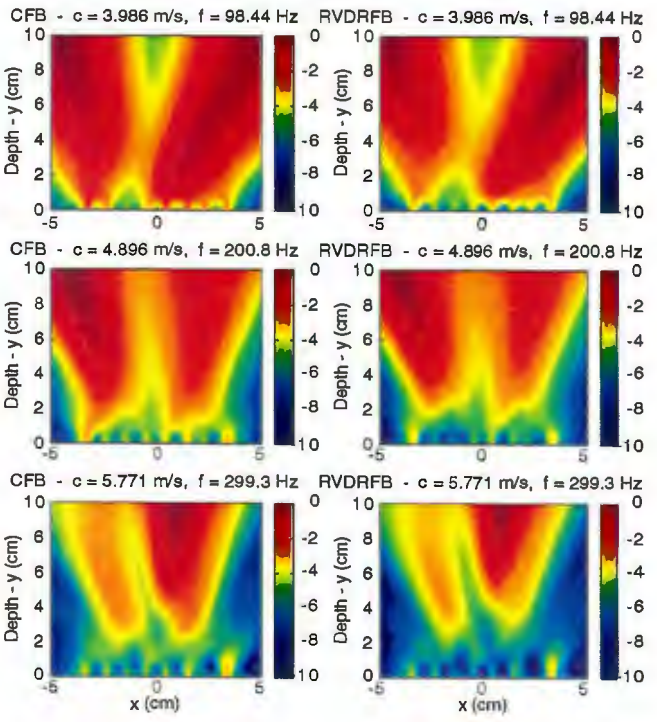

Figure B-57. Image of Data Set 910: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 910_32_512.csd
Runname: 910_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.69
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 4.31
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.394
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 1.906
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.865
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.135
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

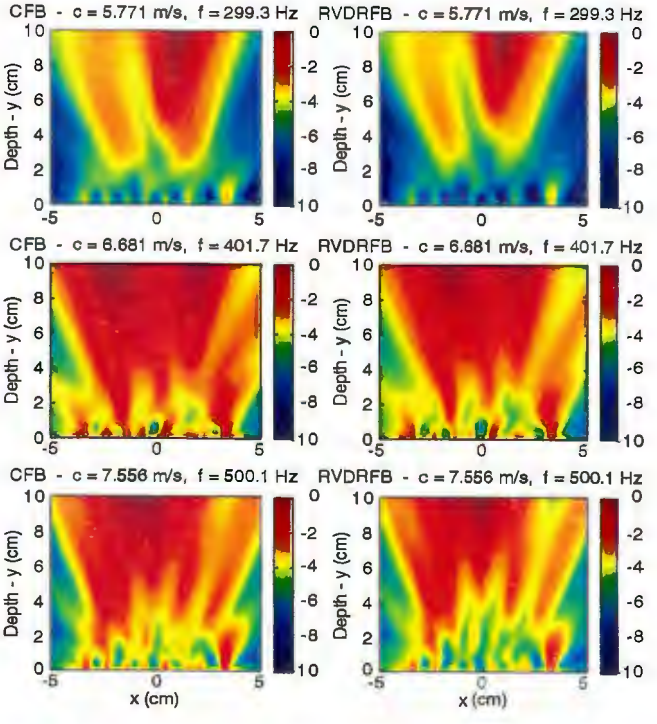

Figure B-58. Image of Data Set 910: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 910_64_256.csd
Runname: 910_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.885
CFB Surface Maximum Location
X (cm): -4.184 Y (cm): 10
RVDR Surface Normalization (dB): 4.383
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.481
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 10
RVDR Surface Normalization (dB): 2.988
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.039
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.548
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

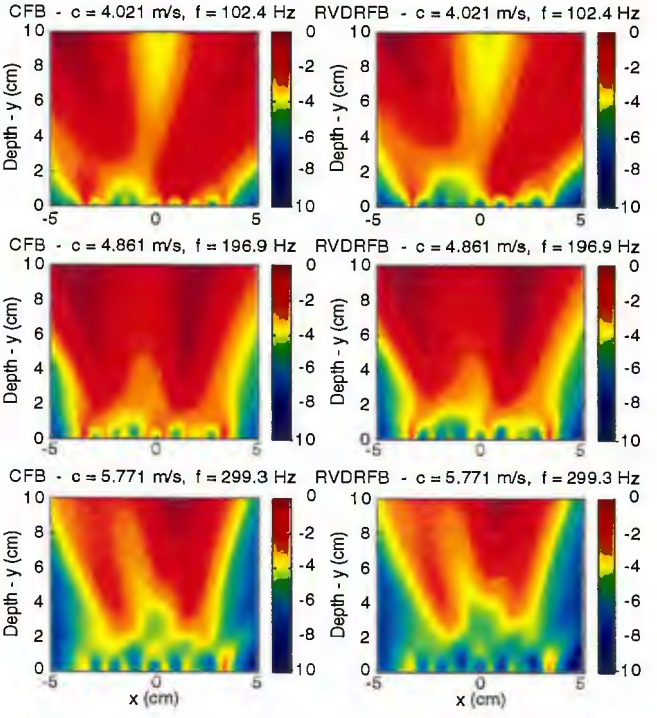

Figure B-59. Image of Data Set 910: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 910_64_256.csd
Runname: 910_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.039
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.548
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.656
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.228
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 2.637
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.067
RVDR Surface Maximum Location
X (cm): 0.102 Y (cm): 10

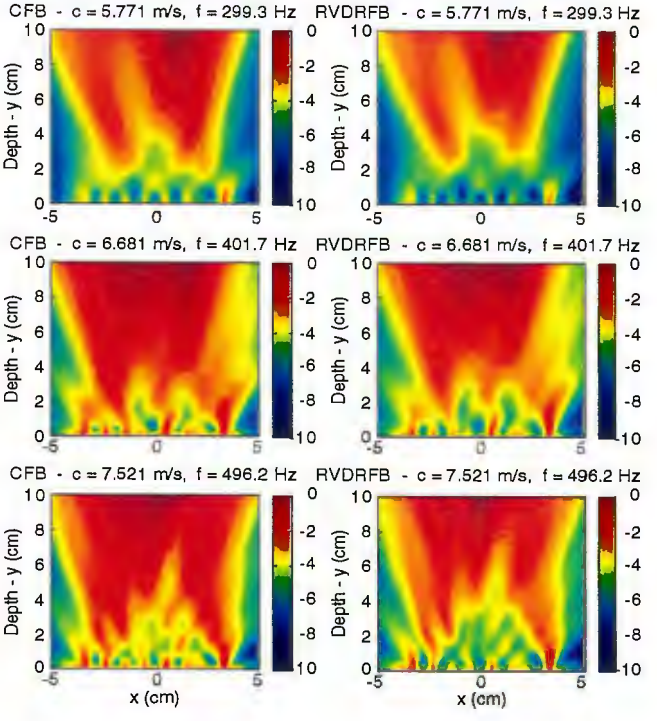

Figure B-60. Image of Data Set 910: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 911_16_1024.csd
Runname: 911_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.298
CFB Surface Maximum Location
X (cm): -3.98 Y (cm): 10
RVDR Surface Normalization (dB): 4.699
RVDR Surface Maximum Location
X (cm): -3.98 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.367
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 4.756
RVDR Surface Maximum Location
X (cm): 2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.153
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 3.033
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

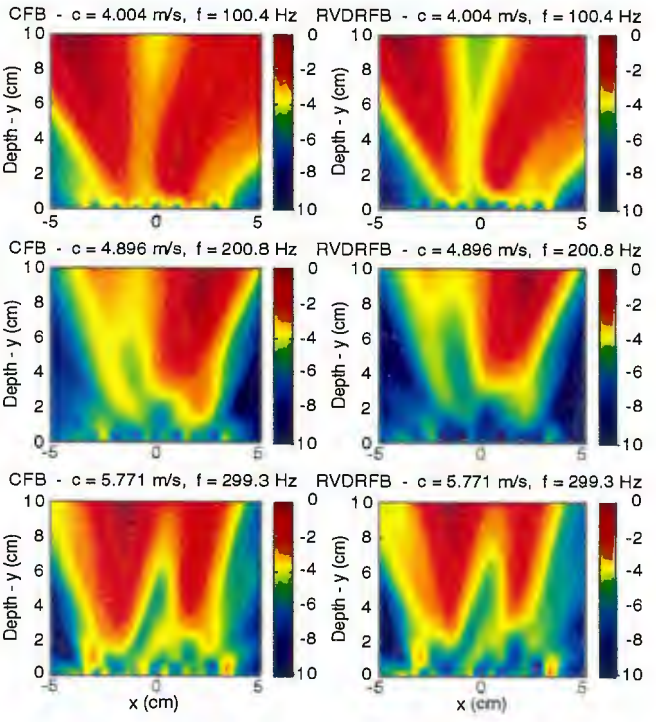

Figure B-61. Image of Data Set 911: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 911_16_1024.csd
Runname: 911_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.153
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 3.033
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.668
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 9.596
RVDR Surface Normalization (dB): 3.847
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.825
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 3.178
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

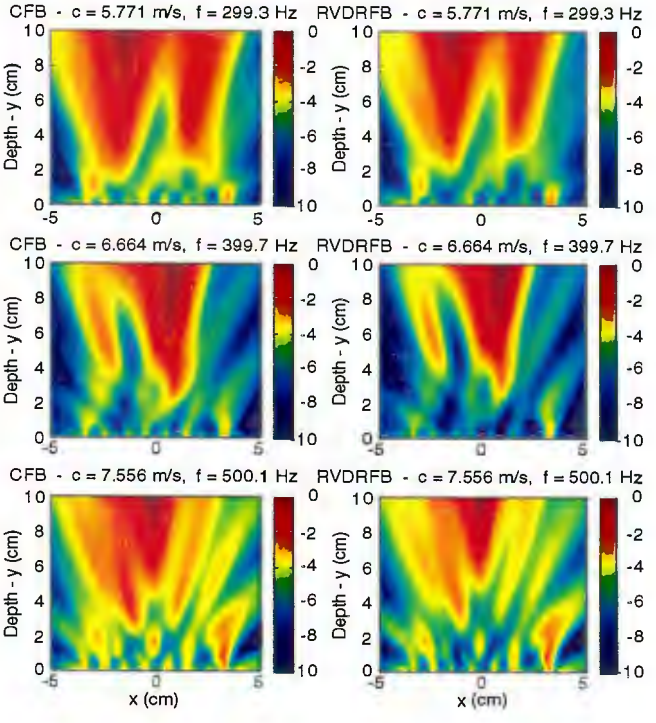

Figure B-62. Image of Data Set 911: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 911_32_512.csd
Runname: 911_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.449
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 4.648
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.596
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 4.13
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.101
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 3.014
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

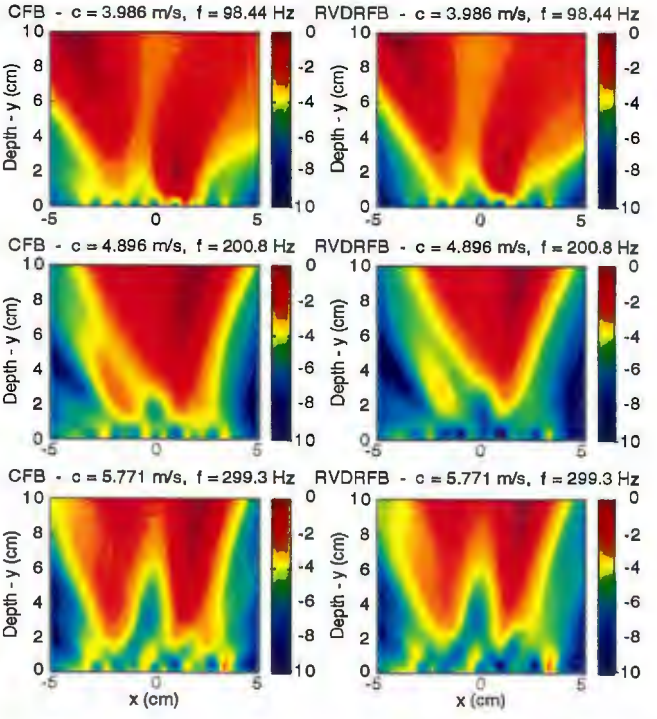

Figure B-63. Image of Data Set 911: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 911_32_512.csd
Runname: 911_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 8

Frequency 300 Hz
CFB Surface Normalization (dB): 4.101
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 3.014
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.836
CFB Surface Maximum Location
X (cm): 0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 3.311
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.105
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 3.072
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

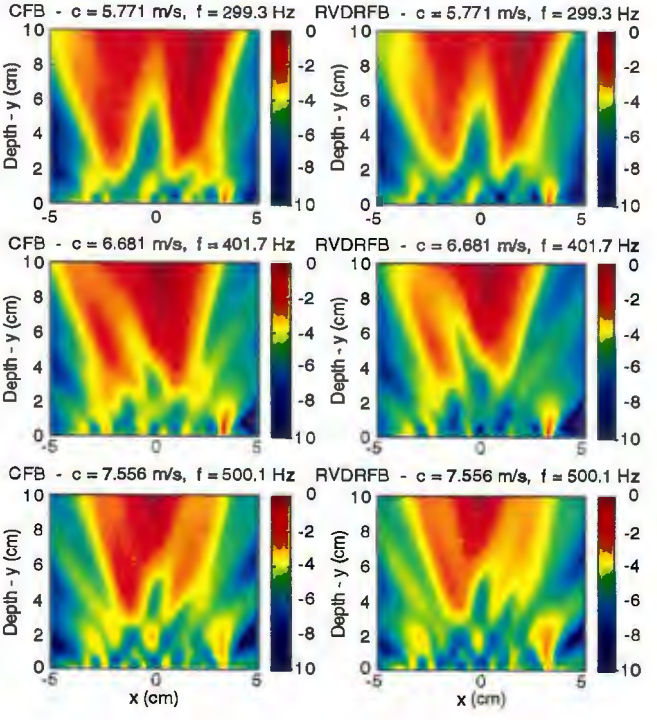

Figure B-64. Image of Data Set 911: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 911_64_256.csd
Runname: 911_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.445
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 4.831
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.657
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.87
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.737
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.634
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

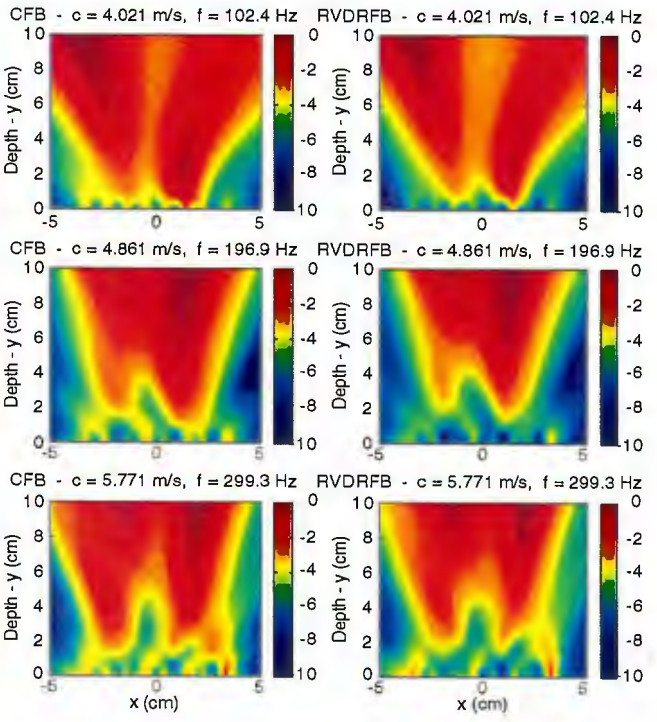

Figure B-65. Image of Data Set 911: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 911_64_256.csd
Runname: 911_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.737
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.634
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.01
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 3.484
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.974
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 2.807
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

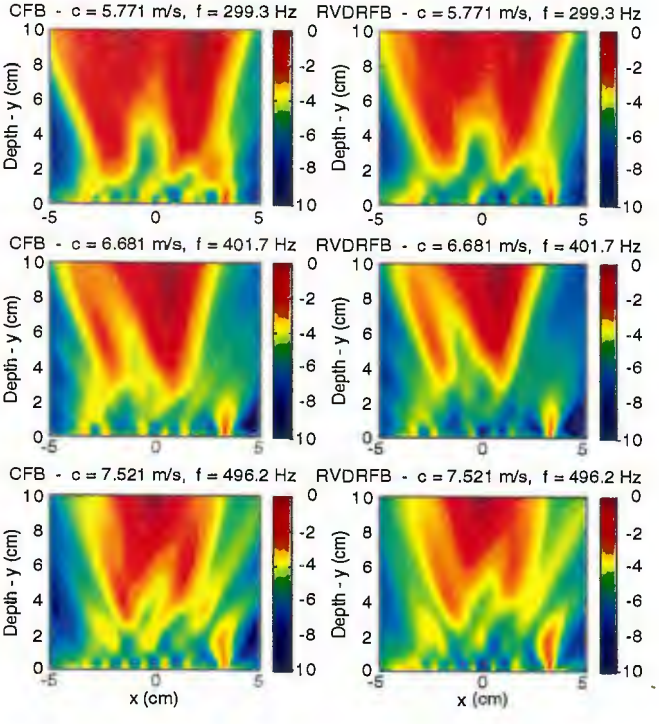

Figure B-66. Image of Data Set 911: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 912_16_1024.csd
Runname: 912_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.943
CFB Surface Maximum Location
X (cm): -5 Y (cm): 8.586
RVDR Surface Normalization (dB): 5.225
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 8.788

Frequency 200 Hz
CFB Surface Normalization (dB): 3.553
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 2.727
RVDR Surface Normalization (dB): 2.939
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 2.727

Frequency 300 Hz
CFB Surface Normalization (dB): 4.46
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.45
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

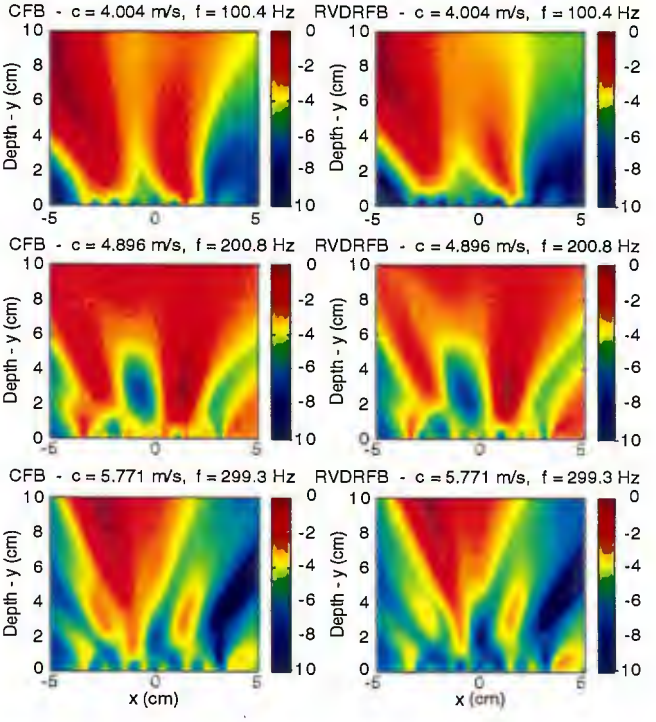

Figure B-67. Image of Data Set 912: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 912_16_1024.csd
Runname: 912_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.46
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.45
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.474
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.358
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.672
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.792
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

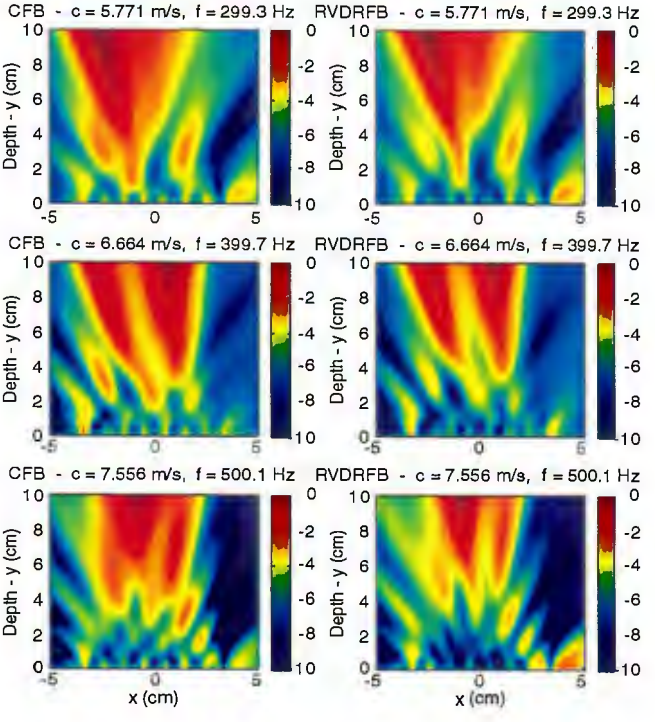

Figure B-68. Image of Data Set 912: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 912_32_512.csd
Runname: 912_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.308
CFB Surface Maximum Location
X (cm): -5 Y (cm): 8.182
RVDR Surface Normalization (dB): 5.704
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 8.182

Frequency 200 Hz
CFB Surface Normalization (dB): 2.977
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 2.524
RVDR Surface Normalization (dB): 2.223
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 2.524

Frequency 300 Hz
CFB Surface Normalization (dB): 4.013
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.316
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

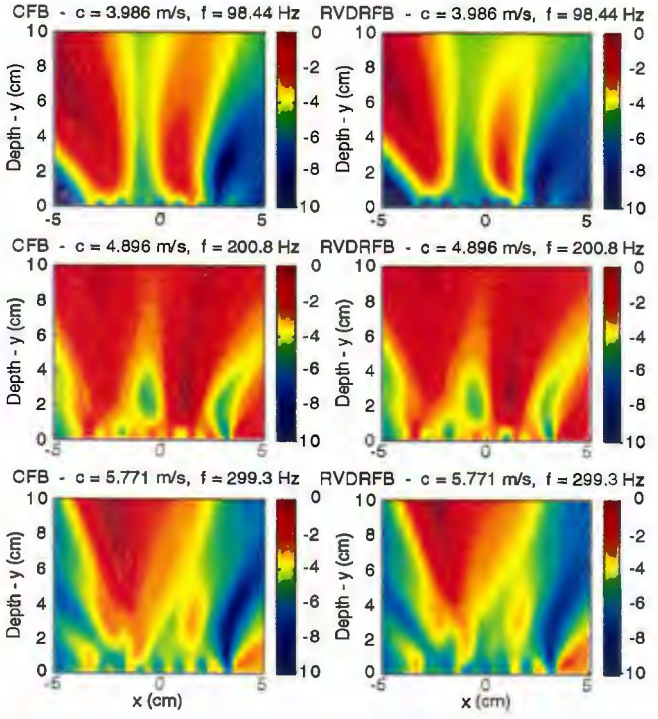

Figure B-69. Image of Data Set 912: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 912_32_512.csd
Runname: 912_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.013
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.316
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.237
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 8.99
RVDR Surface Normalization (dB): 2.423
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.143
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.323
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

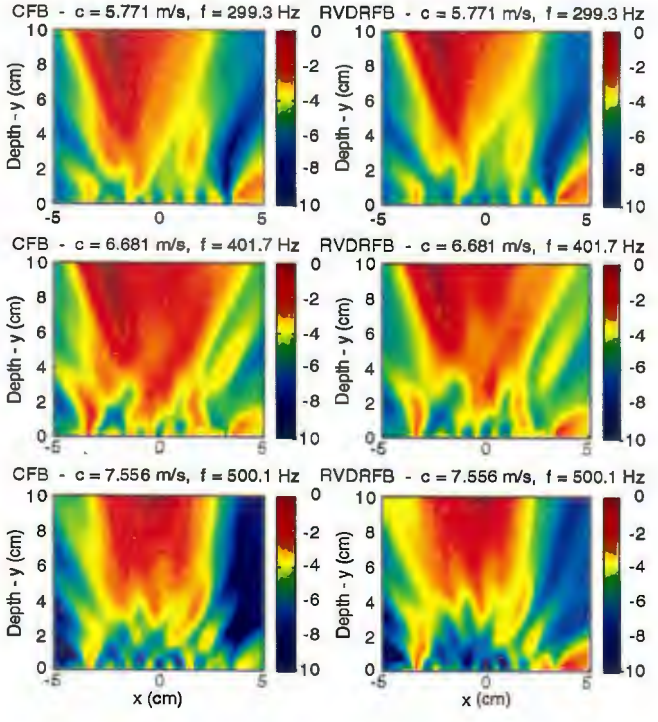

Figure B-70. Image of Data Set 912: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 912_64_256.csd
Runname: 912_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.068
CFB Surface Maximum Location
X (cm): -5 Y (cm): 9.394
RVDR Surface Normalization (dB): 5.507
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 9.394

Frequency 200 Hz
CFB Surface Normalization (dB): 2.389
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 5.151
RVDR Surface Normalization (dB): 1.684
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 5.959

Frequency 300 Hz
CFB Surface Normalization (dB): 3.908
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.121
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

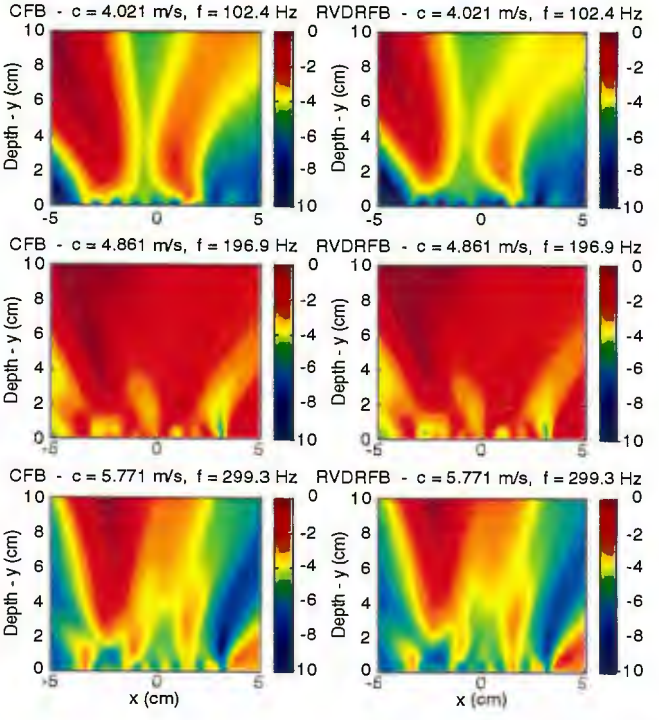

Figure B-71. Image of Data Set 912: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 912_64_256.csd
Runname: 912_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.908
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 3.121
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.385
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.227
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.879
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.17
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

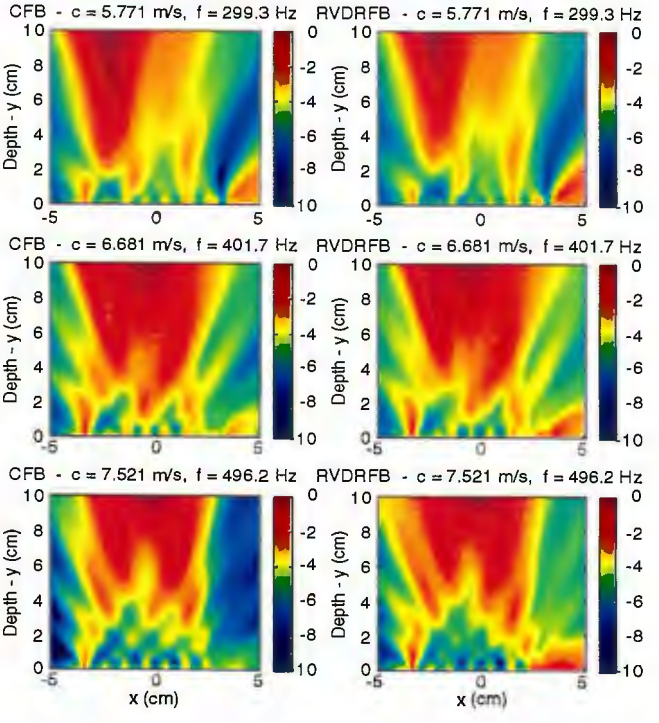

Figure B-72. Image of Data Set 912: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 913_16_1024.csd
Runname: 913_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.928
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 4.153
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 6.565

Frequency 200 Hz
CFB Surface Normalization (dB): 2.781
CFB Surface Maximum Location
X (cm): 5 Y (cm): 4.141
RVDR Surface Normalization (dB): 2.393
RVDR Surface Maximum Location
X (cm): 5 Y (cm): 4.141

Frequency 300 Hz
CFB Surface Normalization (dB): 2.802
CFB Surface Maximum Location
X (cm): -5 Y (cm): 3.131
RVDR Surface Normalization (dB): 2.171
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 3.131

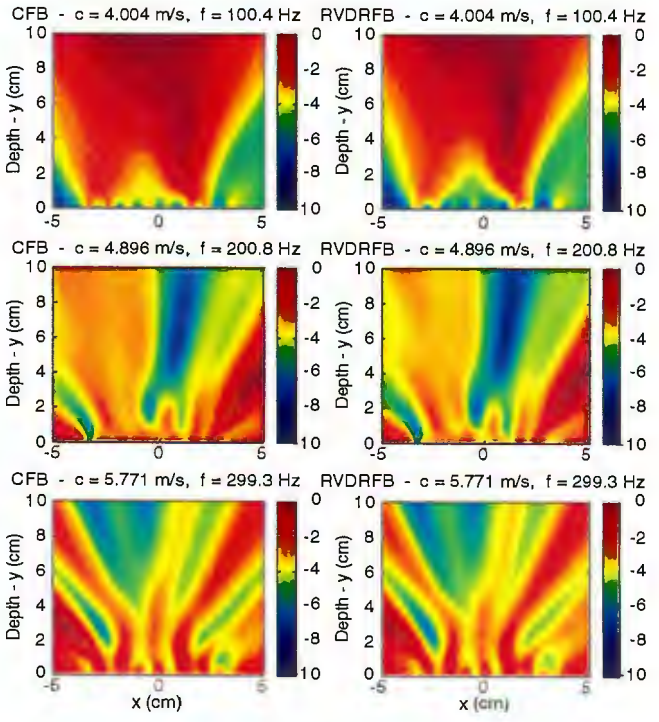

Figure B-73. Image of Data Set 913: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 913_16_1024.csd
Runname: 913_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.802
CFB Surface Maximum Location
X (cm): -5 Y (cm): 3.131
RVDR Surface Normalization (dB): 2.171
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 3.131

Frequency 400 Hz
CFB Surface Normalization (dB): 2.921
CFB Surface Maximum Location
X (cm): 3.163 Y (cm): 1.312
RVDR Surface Normalization (dB): 2.362
RVDR Surface Maximum Location
X (cm): 3.163 Y (cm): 1.312

Frequency 500 Hz
CFB Surface Normalization (dB): 2.755
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 2.727
RVDR Surface Normalization (dB): 2.231
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 2.727

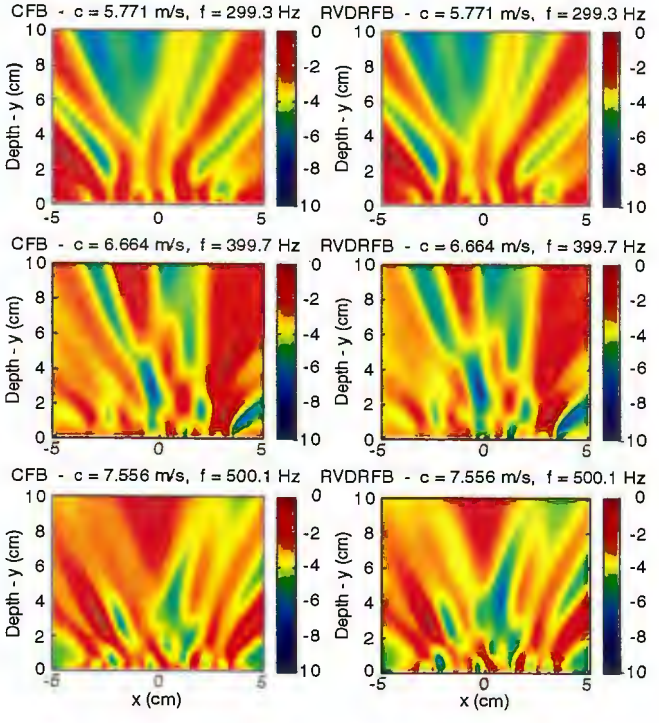

Figure B-74. Image of Data Set 913: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 913_32_512.csd
Runname: 913_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.32
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 4.909
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.721
CFB Surface Maximum Location
X (cm): 4.592 Y (cm): 2.929
RVDR Surface Normalization (dB): 2.516
RVDR Surface Maximum Location
X (cm): 4.592 Y (cm): 2.929

Frequency 300 Hz
CFB Surface Normalization (dB): 2.091
CFB Surface Maximum Location
X (cm): -5 Y (cm): 2.929
RVDR Surface Normalization (dB): 1.762
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 2.929

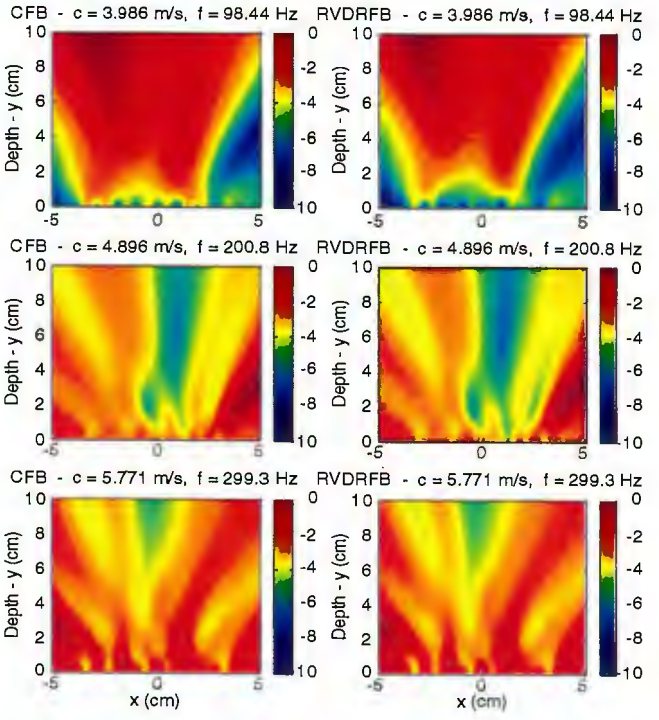

Figure B-75. Image of Data Set 913: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 913_32_512.csd
Runname: 913_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.091
CFB Surface Maximum Location
X (cm): -5 Y (cm): 2.929
RVDR Surface Normalization (dB): 1.762
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 2.929

Frequency 400 Hz
CFB Surface Normalization (dB): 1.961
CFB Surface Maximum Location
X (cm): -5 Y (cm): 3.131
RVDR Surface Normalization (dB): 1.686
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 3.131

Frequency 500 Hz
CFB Surface Normalization (dB): 2.018
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.376
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

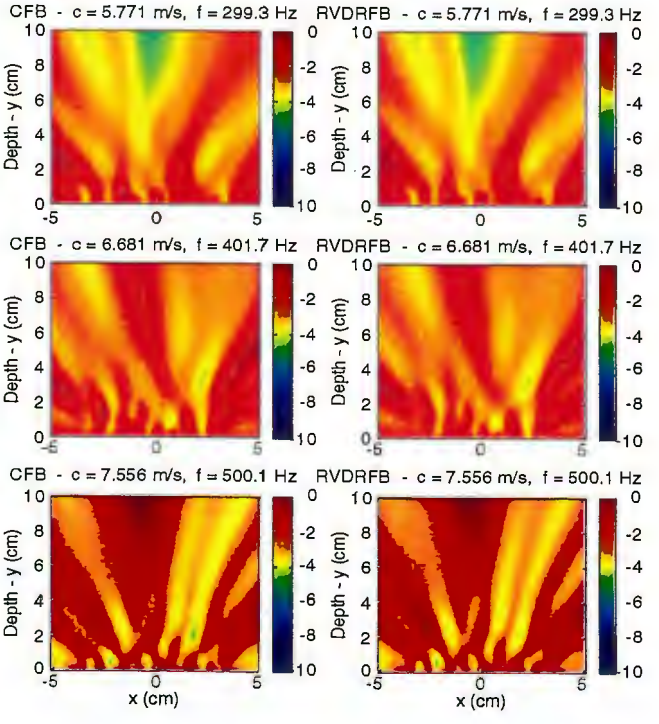

Figure B-76. Image of Data Set 913: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 913_64_256.csd
Runname: 913_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.905
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 4.541
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 2.312
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 1.918
RVDR Surface Normalization (dB): 2.068
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 1.918

Frequency 300 Hz
CFB Surface Normalization (dB): 2.095
CFB Surface Maximum Location
X (cm): -5 Y (cm): 2.524
RVDR Surface Normalization (dB): 1.888
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 2.524

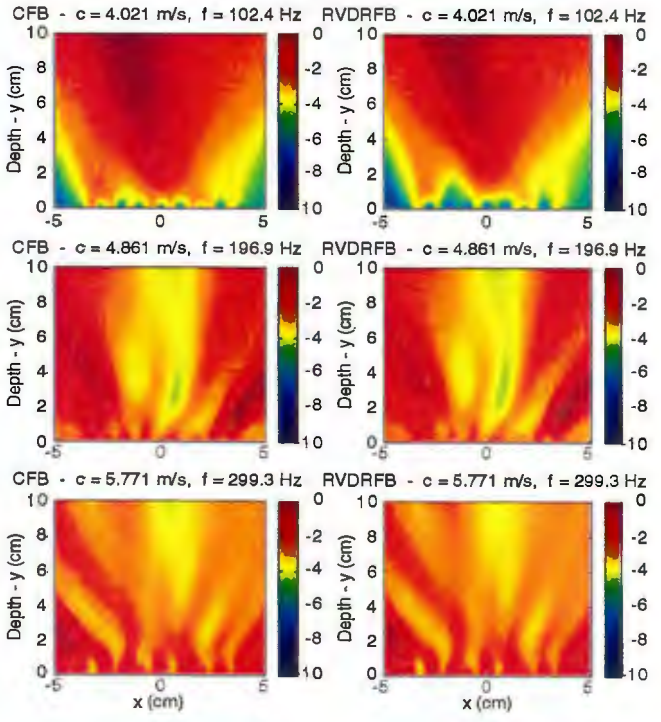

Figure B-77. Image of Data Set 913: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 913_64_256.csd
Runname: 913_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.095
CFB Surface Maximum Location
X (cm): -5 Y (cm): 2.524
RVDR Surface Normalization (dB): 1.888
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 2.524

Frequency 400 Hz
CFB Surface Normalization (dB): 1.803
CFB Surface Maximum Location
X (cm): 3.163 Y (cm): 0.9082
RVDR Surface Normalization (dB): 1.631
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 3.131

Frequency 500 Hz
CFB Surface Normalization (dB): 1.575
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.255
RVDR Surface Maximum Location
X (cm): 3.571 Y (cm): 1.312

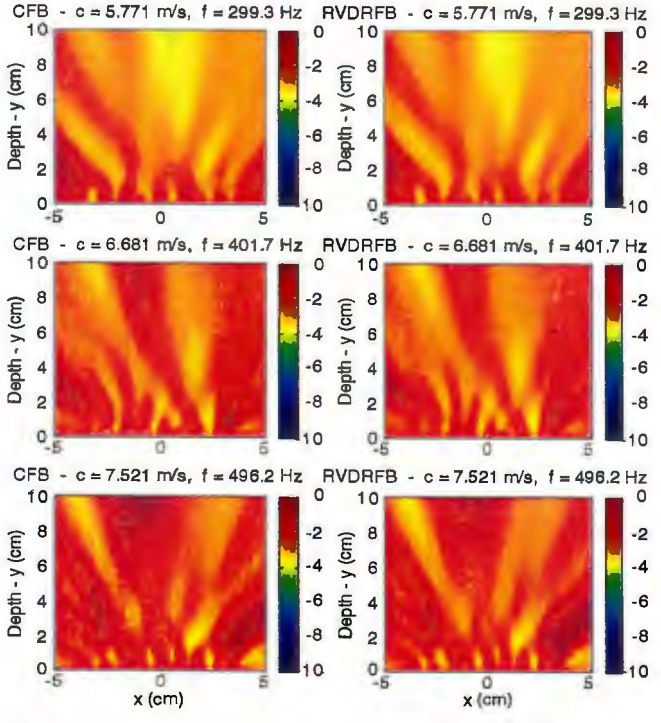

Figure B-78. Image of Data Set 913: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 914_16_1024.csd
Runname: 914_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.693
CFB Surface Maximum Location
X (cm): -3.571 Y (cm): 8.788
RVDR Surface Normalization (dB): 4.635
RVDR Surface Maximum Location
X (cm): -4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 6.19
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 9.192
RVDR Surface Normalization (dB): 5.44
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 9.192

Frequency 300 Hz
CFB Surface Normalization (dB): 4.986
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.06
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

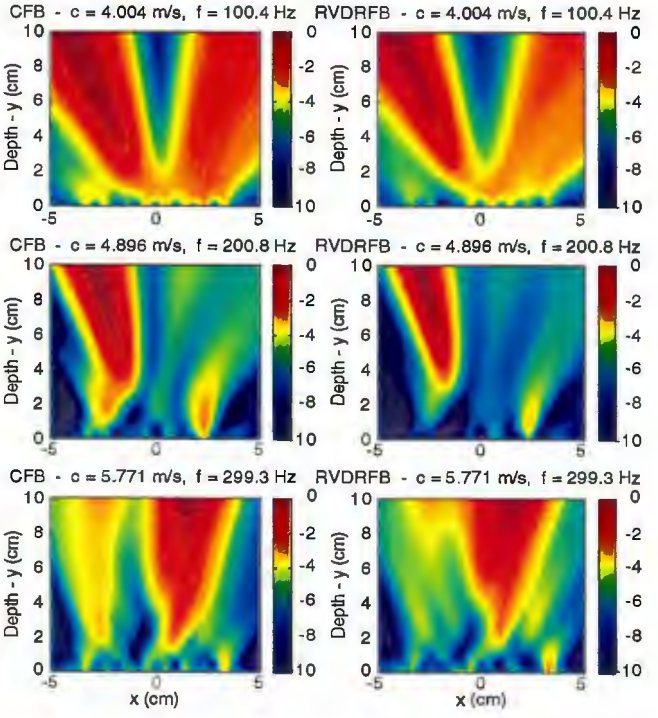

Figure B-79. Image of Data Set 914: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 914_16_1024.csd
Runname: 914_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.986
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.06
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.84
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.203
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.545
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.222
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

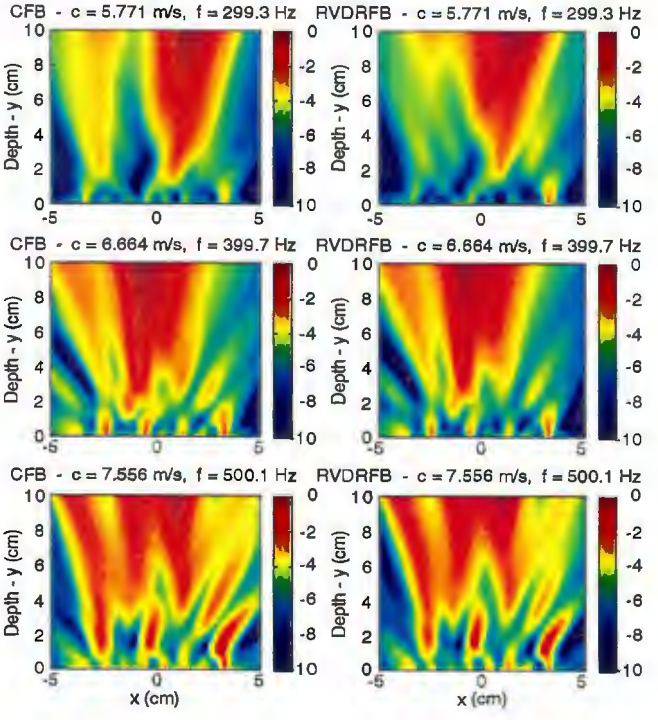

Figure B-80. Image of Data Set 914: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 914_32_512.csd
Runname: 914_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.287
CFB Surface Maximum Location
X (cm): -4.796 Y (cm): 10
RVDR Surface Normalization (dB): 4.526
RVDR Surface Maximum Location
X (cm): -5 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.536
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 8.384
RVDR Surface Normalization (dB): 4.758
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 8.788

Frequency 300 Hz
CFB Surface Normalization (dB): 4.162
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.425
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

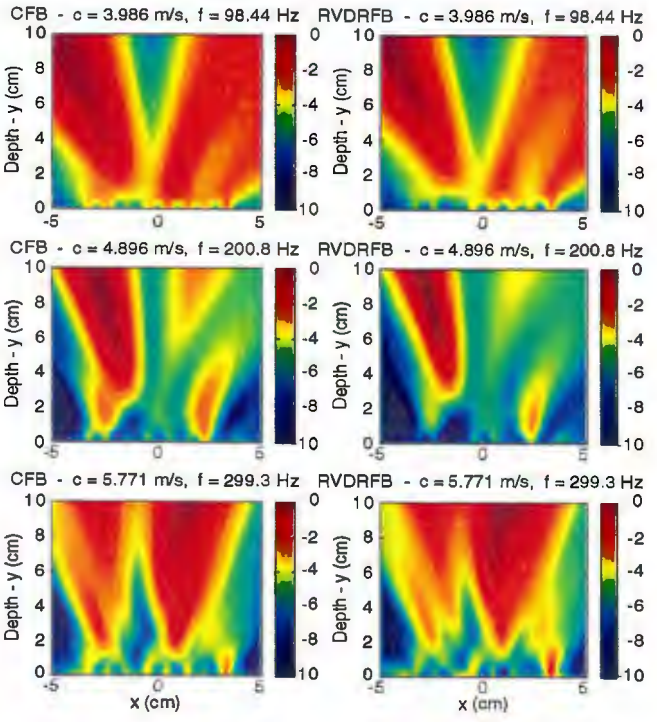

Figure B-81. Image of Data Set 914: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 914_32_512.csd
Runname: 914_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.162
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.425
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.967
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.336
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.58
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.736
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

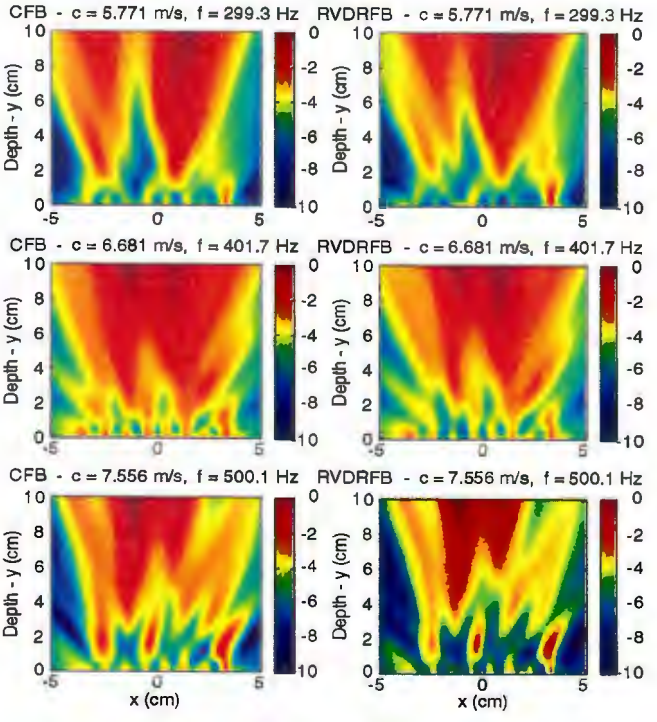

Figure B-82. Image of Data Set 914: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 914_84_256.csd
Runname: 914_84_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 84
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.771
CFB Surface Maximum Location
X (cm): 4.592 Y (cm): 10
RVDR Surface Normalization (dB): 3.546
RVDR Surface Maximum Location
X (cm): 4.796 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.601
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 8.788
RVDR Surface Normalization (dB): 4.188
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 9.394

Frequency 300 Hz
CFB Surface Normalization (dB): 4.224
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.333
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

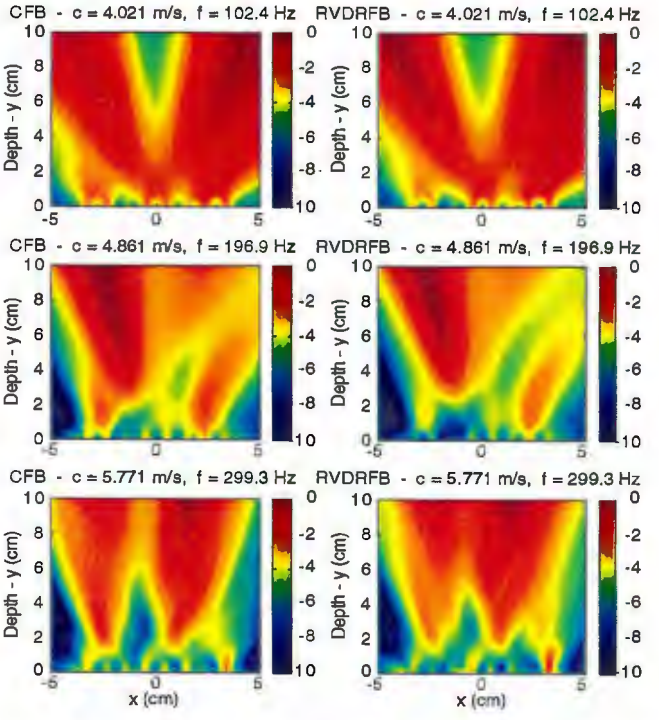

Figure B-83. Image of Data Set 914: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 914_64_256.csd
Runname: 914_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.224
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.333
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.281
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 3.662
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.709
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.716
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

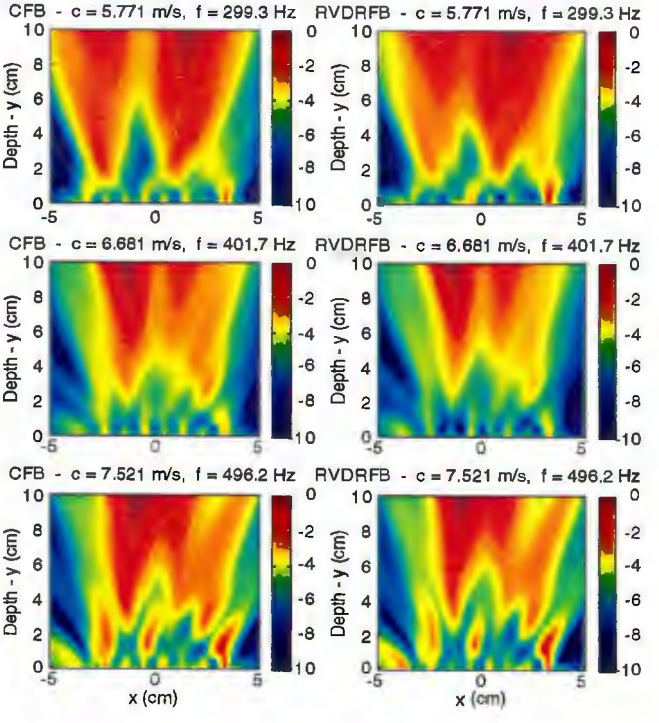

Figure B-84. Image of Data Set 914: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 915_16_1024.csd
Runname: 915_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.008
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 5.757
RVDR Surface Normalization (dB): 4.061
RVDR Surface Maximum Location
X (cm): 2.959 Y (cm): 8.586

Frequency 200 Hz
CFB Surface Normalization (dB): 4.75
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 4.949
RVDR Surface Normalization (dB): 4.177
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 4.949

Frequency 300 Hz
CFB Surface Normalization (dB): 3.604
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 7.373
RVDR Surface Normalization (dB): 2.736
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 9.798

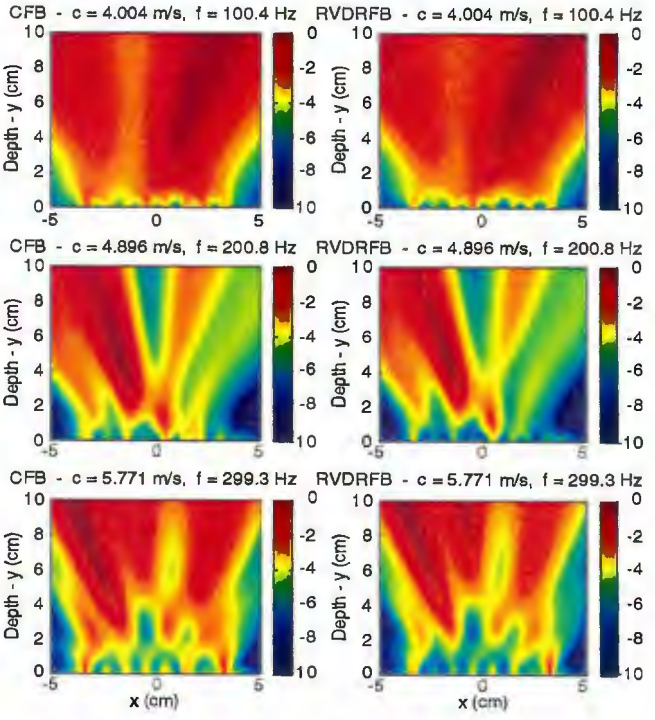

Figure B-85. Image of Data Set 915: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 915_16_1024.csd
Runname: 915_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.604
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 7.373
RVDR Surface Normalization (dB): 2.736
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 9.798

Frequency 400 Hz
CFB Surface Normalization (dB): 3.967
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.635
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.71
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 10
RVDR Surface Normalization (dB): 2.98
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

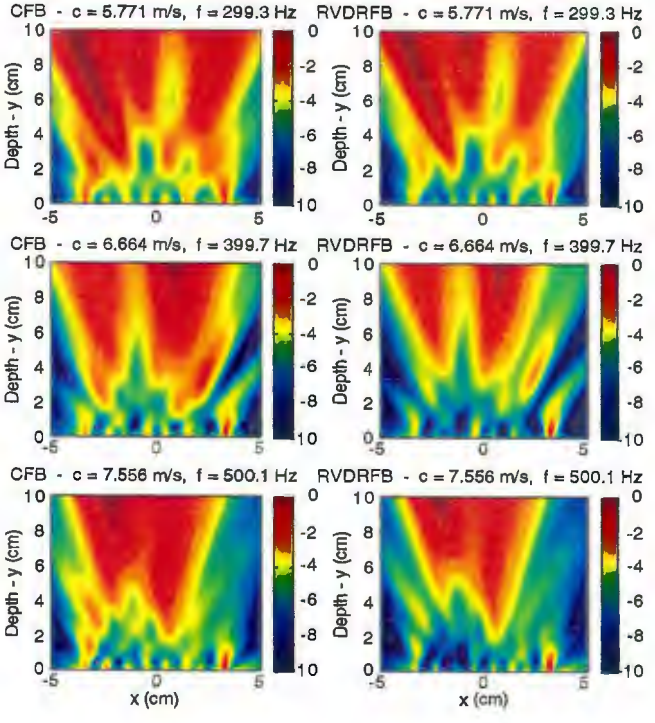

Figure B-86. Image of Data Set 915: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 915_32_512.csd
Runname: 915_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.287
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 10
RVDR Surface Normalization (dB): 4.882
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.418
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 7.98
RVDR Surface Normalization (dB): 3.866
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 7.98

Frequency 300 Hz
CFB Surface Normalization (dB): 4.126
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.678
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

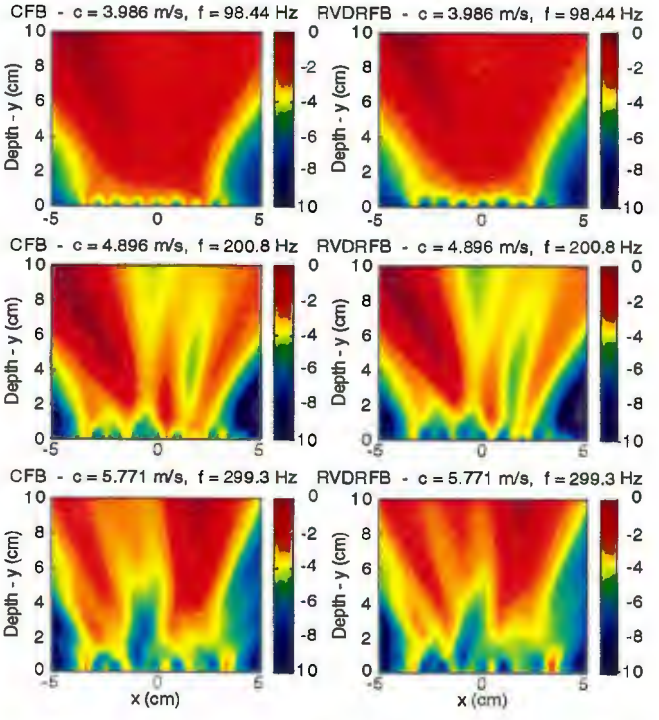

Figure B-87. Image of Data Set 915: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 915_32_512.csd
Runname: 915_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.126
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.678
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.958
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.217
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.88
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.961
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

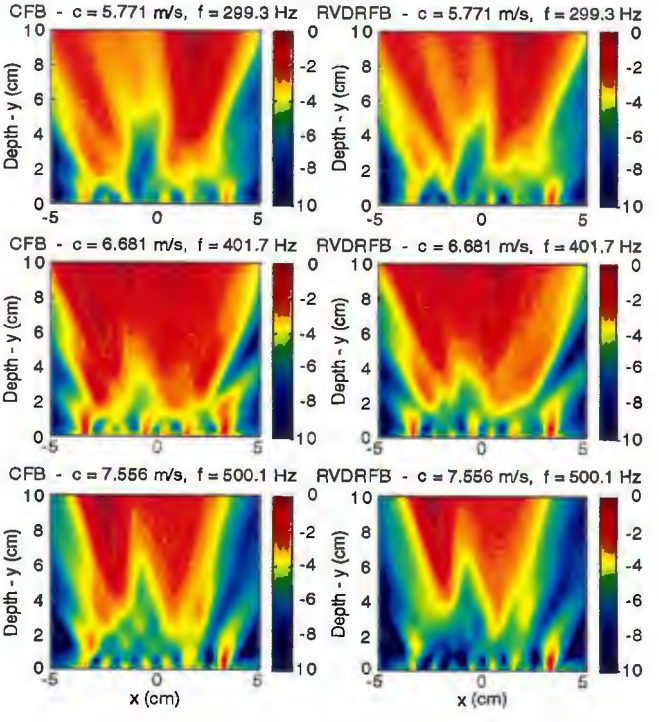

Figure B-88. Image of Data Set 915: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 915_64_256.csd
Runname: 915_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.673
CFB Surface Maximum Location
X (cm): -4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.22
RVDR Surface Maximum Location
X (cm): -4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.948
CFB Surface Maximum Location
X (cm): -3.776 Y (cm): 9.798
RVDR Surface Normalization (dB): 4.55
RVDR Surface Maximum Location
X (cm): -3.776 Y (cm): 9.798

Frequency 300 Hz
CFB Surface Normalization (dB): 4.07
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.687
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

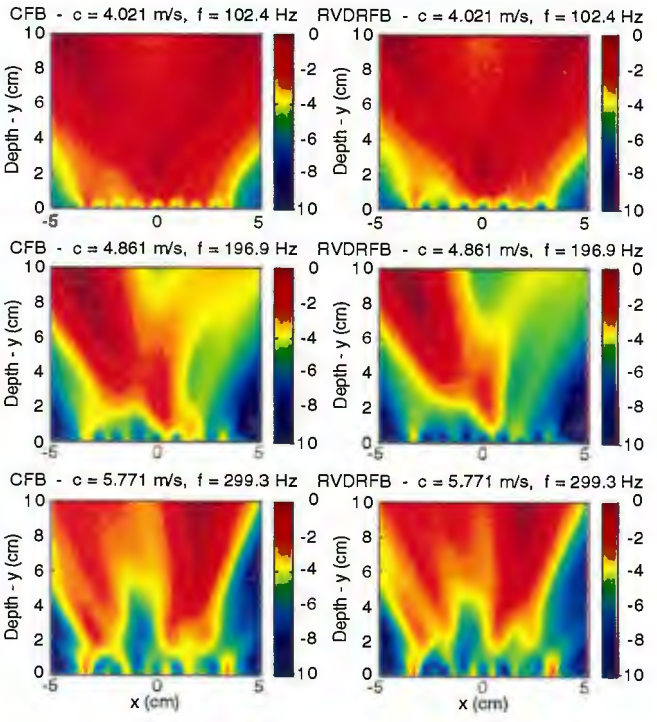

Figure B-89. Image of Data Set 915: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 915_64_256.csd
Runname: 915_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.07
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.687
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.867
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.039
RVDR Surface Maximum Location
X (cm): 0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.328
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.526
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

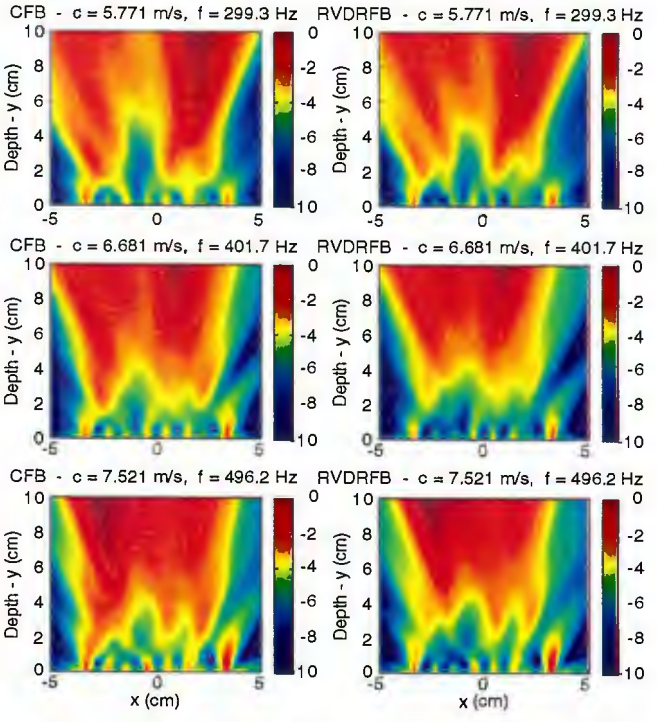

Figure B-90. Image of Data Set 915: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 916_16_1024.csd
Runname: 916_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.981
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 1.514
RVDR Surface Normalization (dB): 4.143
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 8.586

Frequency 200 Hz
CFB Surface Normalization (dB): 5.972
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 4.809
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.534
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.945
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

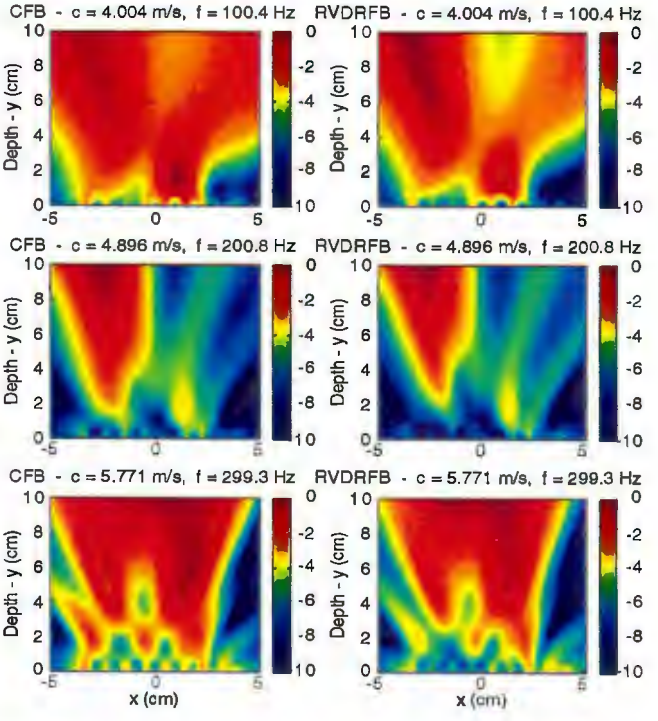

Figure B-91. Image of Data Set 916: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 916_16_1024.csd
Runname: 916_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.534
CFB Surface Maximum Location
X (cm): 1.122 Y (cm): 10
RVDR Surface Normalization (dB): 1.945
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.875
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.138
RVDR Surface Maximum Location
X (cm): 0.102 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.482
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 8.788
RVDR Surface Normalization (dB): 2.452
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

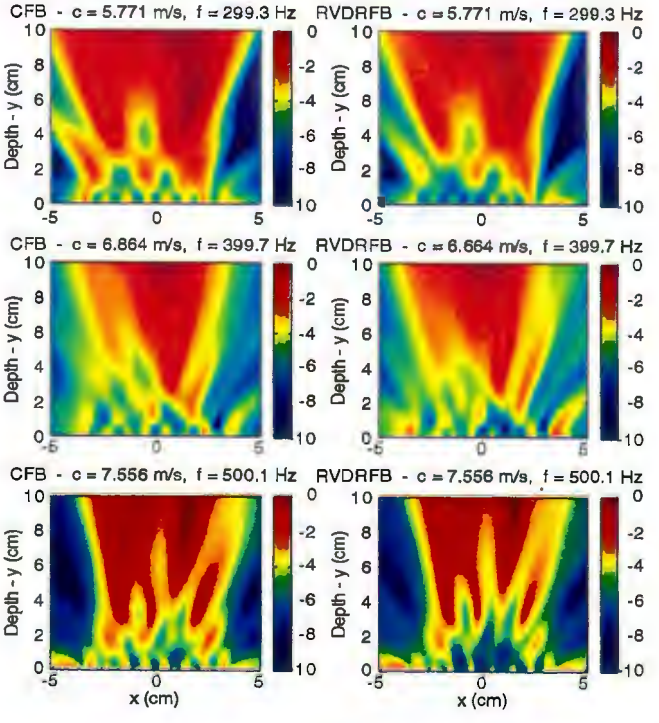

Figure B-92. Image of Data Set 916: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 916_32_512.csd
Runname: 916_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.487
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 6.767
RVDR Surface Normalization (dB): 4.185
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 6.767

Frequency 200 Hz
CFB Surface Normalization (dB): 5.51
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 4.949
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.993
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.937
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

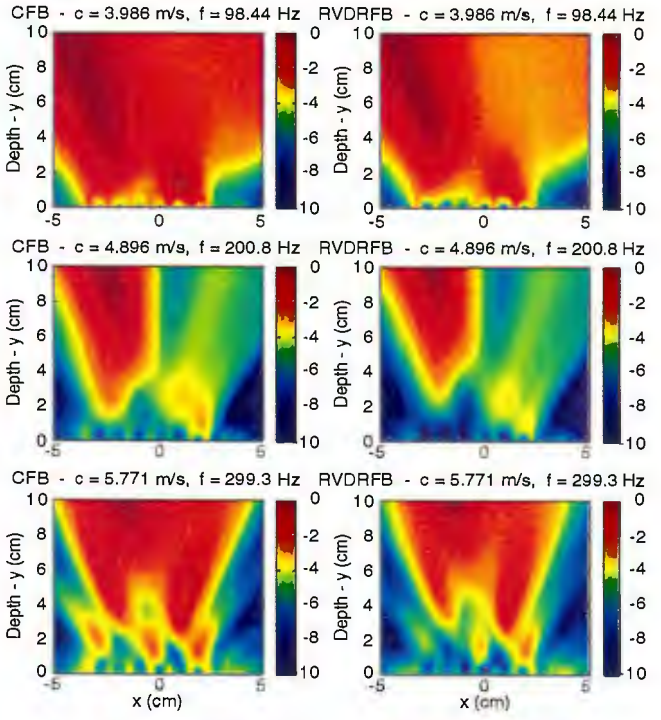

Figure B-93. Image of Data Set 916: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 916_32_512.csd
Runname: 916_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.993
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.937
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.335
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.151
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.351
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 8.99
RVDR Surface Normalization (dB): 2.009
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

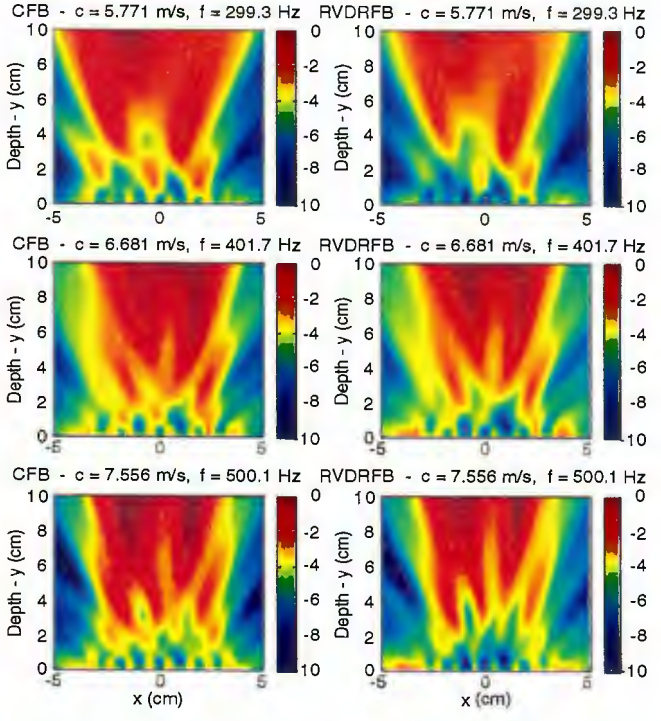

Figure B-94. Image of Data Set 916: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 916_64_256.csd
Runname: 916_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.878
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.856
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 8.182
RVDR Surface Normalization (dB): 4.45
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 8.384

Frequency 200 Hz
CFB Surface Normalization (dB): 5.286
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 10
RVDR Surface Normalization (dB): 4.804
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.895
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.975
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

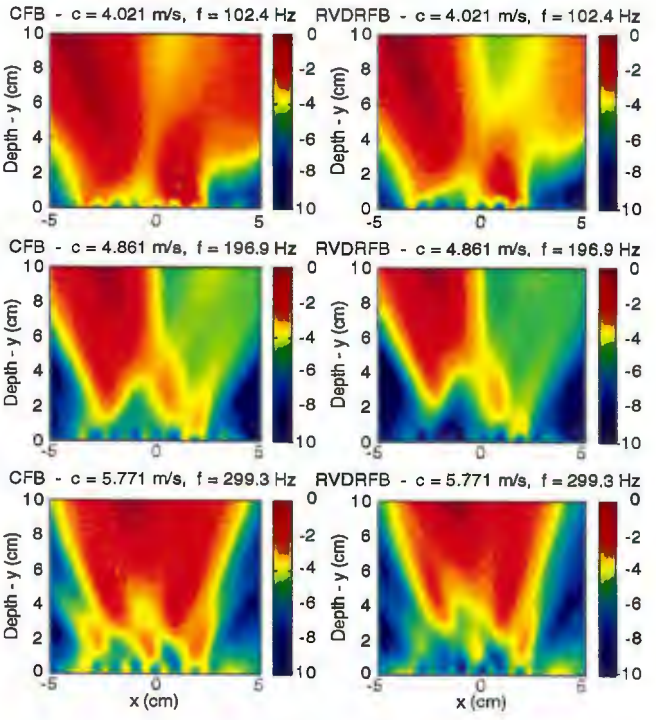

Figure B-95. Image of Data Set 916: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 916_64_256.csd
Runname: 916_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.895
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.975
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.764
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.735
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.733
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 9.596
RVDR Surface Normalization (dB): 2.511
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

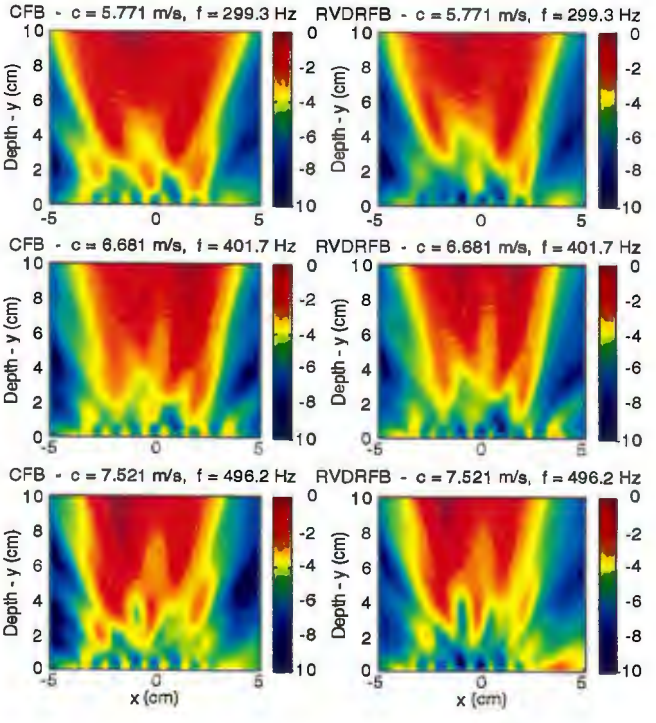

Figure B-96. Image of Data Set 916: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 917_16_1024.csd
Runname: 917_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.879
CFB Surface Maximum Location
X (cm): 2.959 Y (cm): 3.131
RVDR Surface Normalization (dB): 4.101
RVDR Surface Maximum Location
X (cm): 3.367 Y (cm): 4.141

Frequency 200 Hz
CFB Surface Normalization (dB): 4.847
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 3.768
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.265
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.631
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

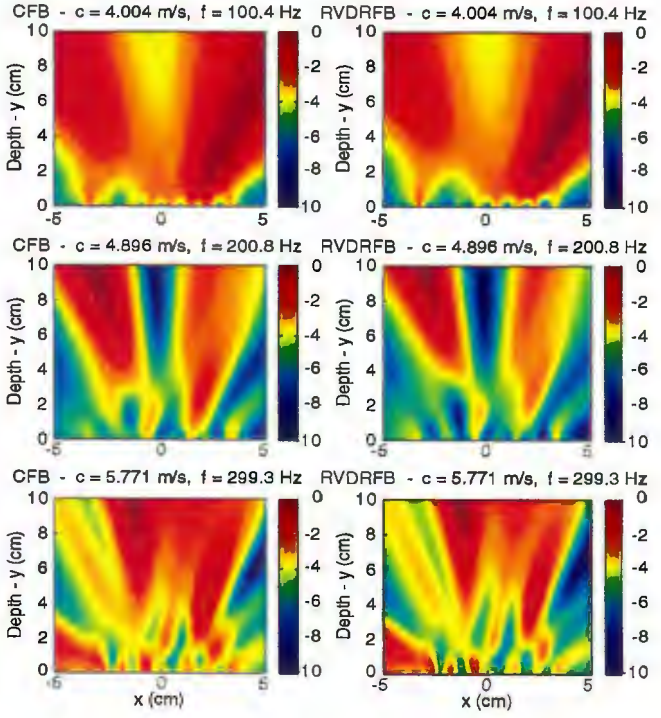

Figure B-97. Image of Data Set 917: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 917_16_1024.csd
Runname: 917_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.265
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.631
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.3
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.041
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.283
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.476
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

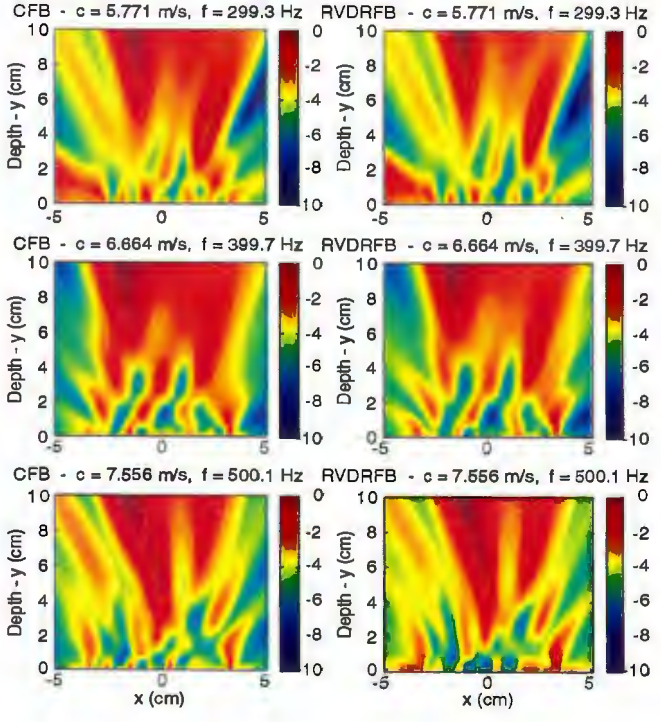

Figure B-98. Image of Data Set 917: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 917_32_512.csd
Runname: 917_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.12
CFB Surface Maximum Location
X (cm): -4.592 Y (cm): 10
RVDR Surface Normalization (dB): 4.433
RVDR Surface Maximum Location
X (cm): -4.796 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 3.743
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 2.958
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.122
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.527
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

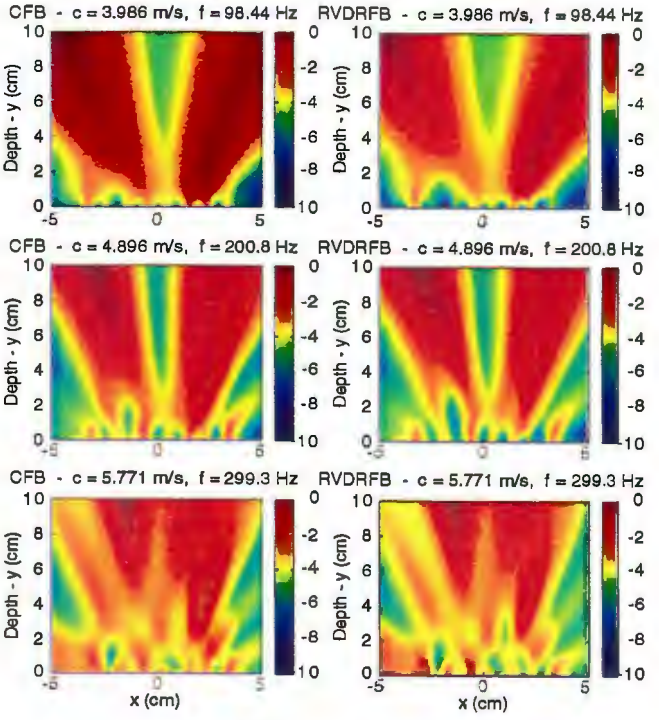

Figure B-99. Image of Data Set 917: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 917_32_512.csd
Runname: 917_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.122
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.527
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.593
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.663
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.592
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.001
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

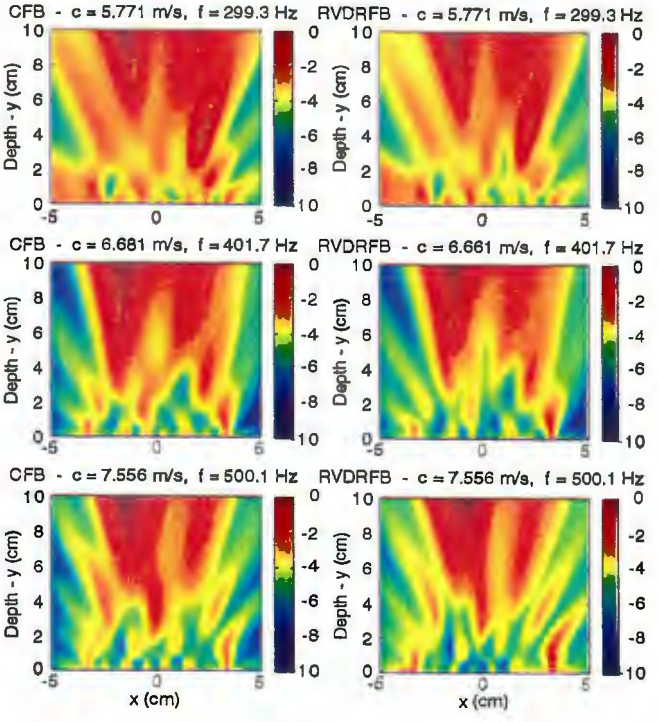

Figure B-100. Image of Data Set 917: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 917_64_256.csd
Runname: 917_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.664
CFB Surface Maximum Location
X (cm): -4.796 Y (cm): 10
RVDR Surface Normalization (dB): 4.122
RVDR Surface Maximum Location
X (cm): -4.796 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.494
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 3.982
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.68
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.194
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

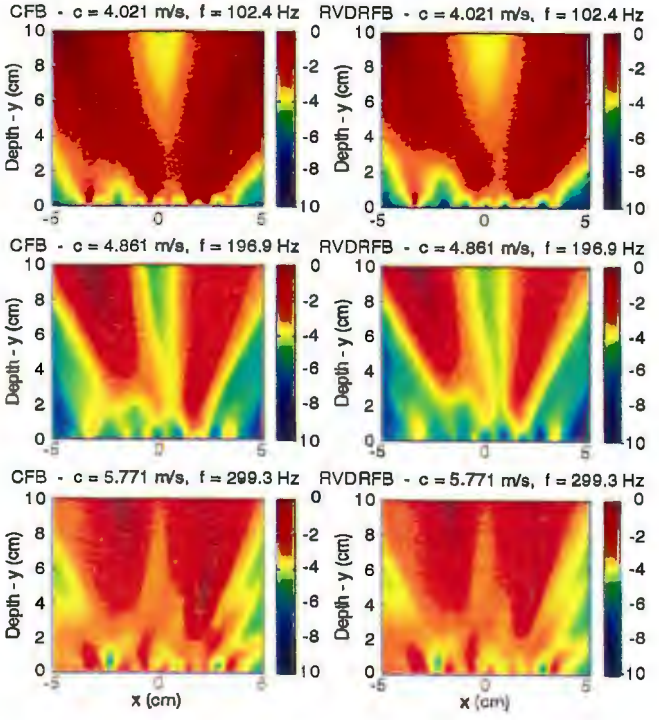

Figure B-101. Image of Data Set 917: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 917_64_256.csd
Runname: 917_64_258
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.68
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.194
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.62
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.932
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.374
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 3.26
RVDR Surface Maximum Location
X (cm): -0.7143 Y (cm): 10

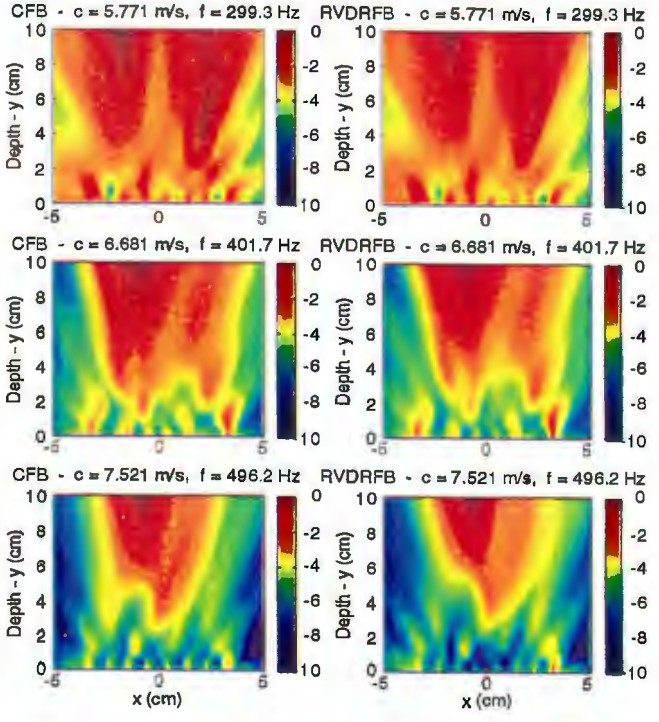

Figure B-102. Image of Data Set 917: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 918_16_1024.csd
Runname: 918_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.138
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 10
RVDR Surface Normalization (dB): 4.345
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.358
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.707
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.283
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.566
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

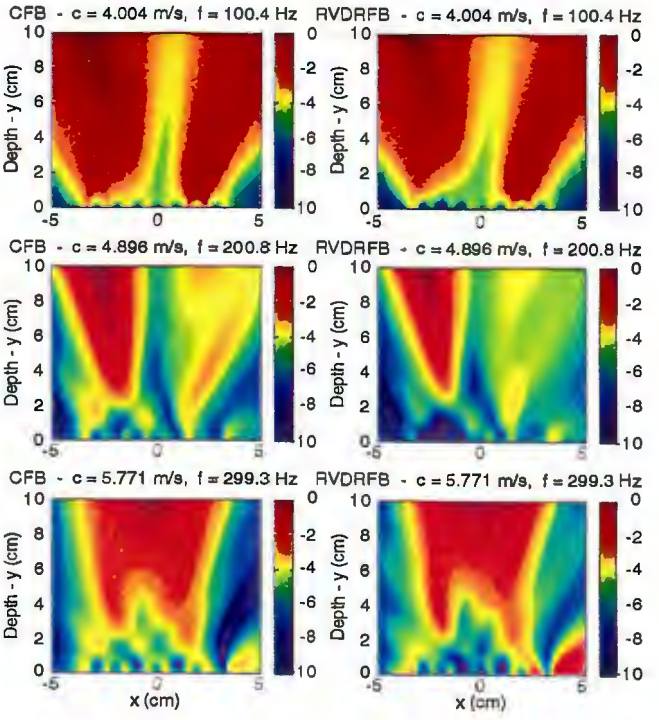

Figure B-103. Image of Data Set 918: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 918_18_1024.csd
Runname: 918_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.283
CFB Surface Maximum Location
X (cm): -0.102 Y (cm): 10
RVDR Surface Normalization (dB): 1.566
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.919
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.59
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.312
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 0.6542
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 6.969

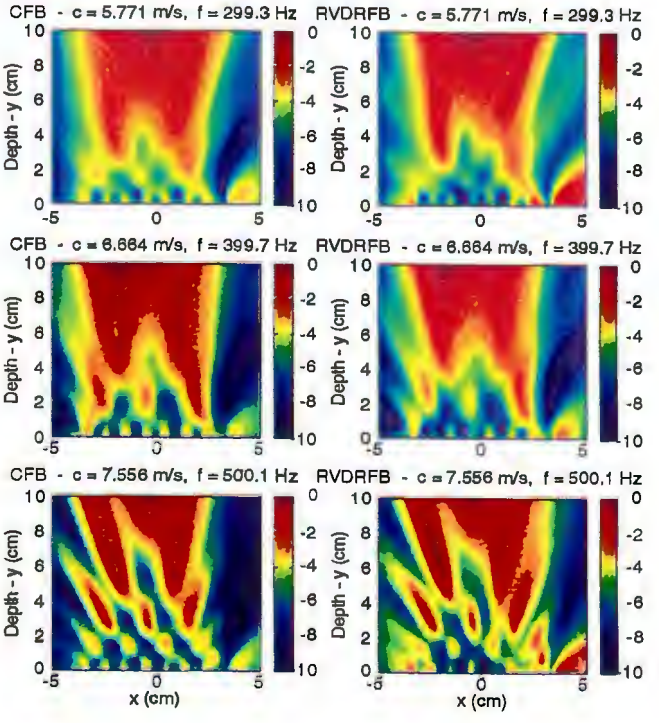

Figure B-104. Image of Data Set 918: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 918_32_512.csd
Runname: 918_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.846
CFB Surface Maximum Location
X (cm): -4.592 Y (cm): 10
RVDR Surface Normalization (dB): 3.74
RVDR Surface Maximum Location
X (cm): -4.796 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.916
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.64
RVDR Surface Maximum Location
X (cm). -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.173
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.889
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

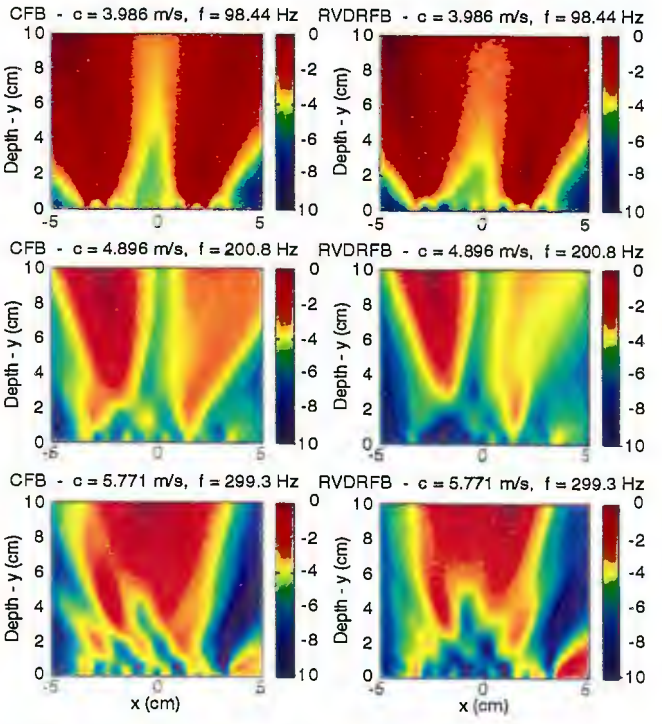

Figure B-105. Image of Data Set 918: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 918_32_512.csd
Runname: 918_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.173
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.889
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 5.187
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 3.711
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.537
CFB Surface Maximum Location
X (cm): -0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.562
RVDR Surface Maximum Location
X (cm): -0.5102 Y (cm): 10

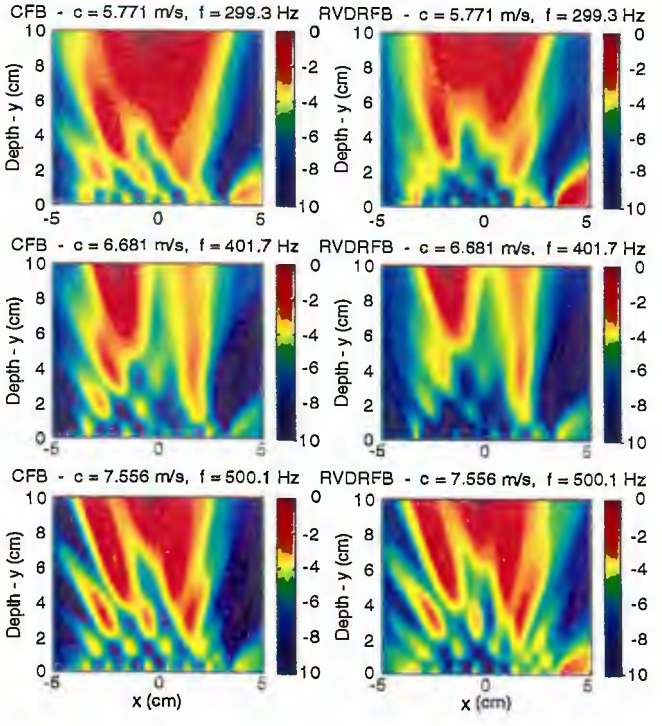

Figure B-106. Image of Data Set 918: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 918_64_256.csd
Runname: 918_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 4.905
CFB Surface Maximum Location
X (cm): 4.388 Y (cm): 10
RVDR Surface Normalization (dB): 3.862
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 4.343

Frequency 200 Hz
CFB Surface Normalization (dB): 4.84
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.795
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.864
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.325
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

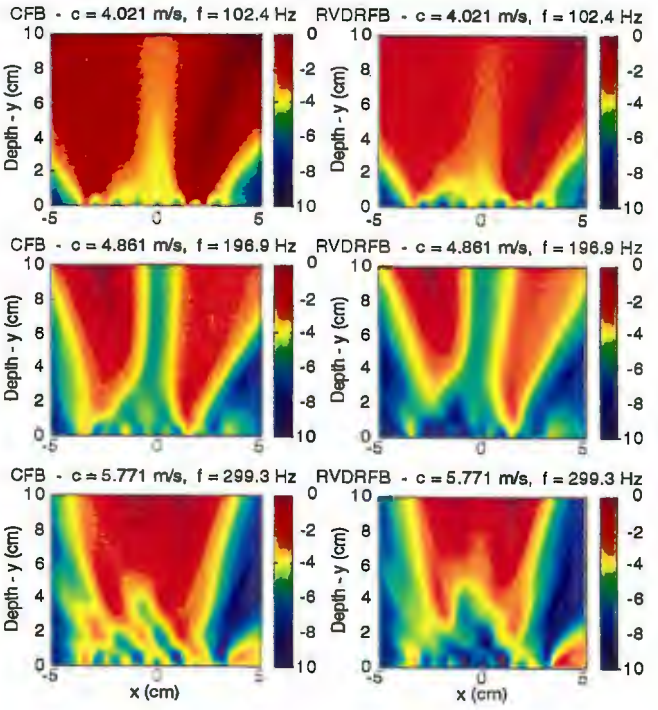

Figure B-107. Image of Data Set 918: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 918_64_256.csd
Runname: 918_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.664
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.325
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.792
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 3.546
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.787
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.353
RVDR Surface Maximum Location
X (cm): -0.102 Y (cm): 10

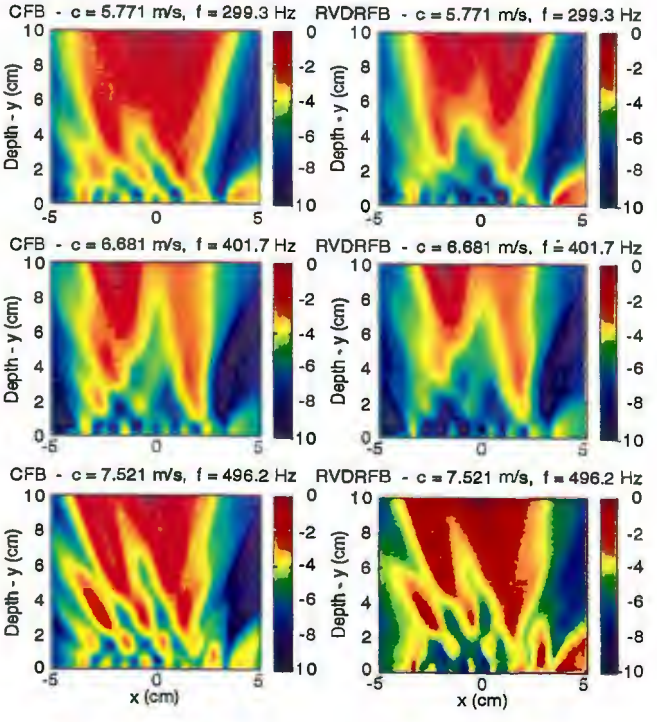

Figure B-108. Image of Data Set 918: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 919_16_1024.csd
Runname: 919_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.056
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 6.161
RVDR Surface Normalization (dB): 5.631
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 5.757

Frequency 200 Hz
CFB Surface Normalization (dB): 4.105
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.444
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.925
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.38
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

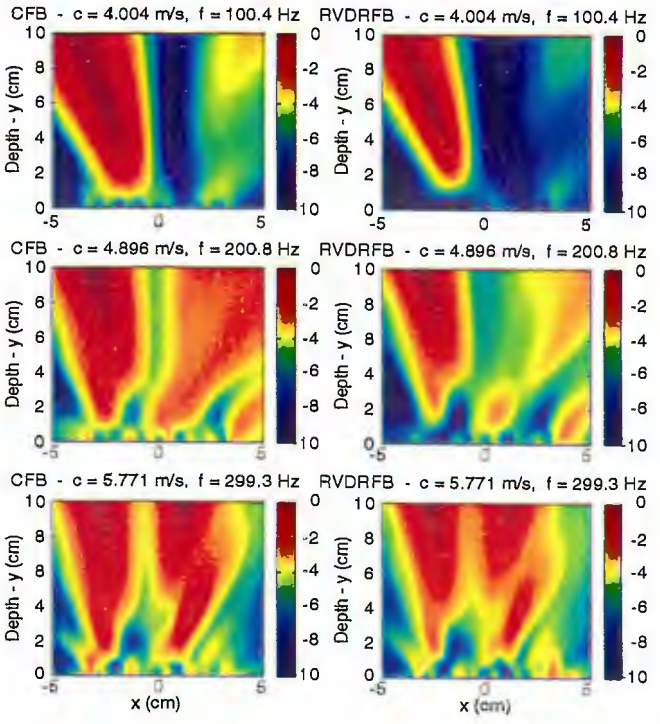

Figure B-109. Image of Data Set 919: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 919_16_1024.csd
Runname: 919_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.925
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.38
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.101
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 1.092
RVDR Surface Maximum Location
X (cm): 0.3061 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 5.257
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.439
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

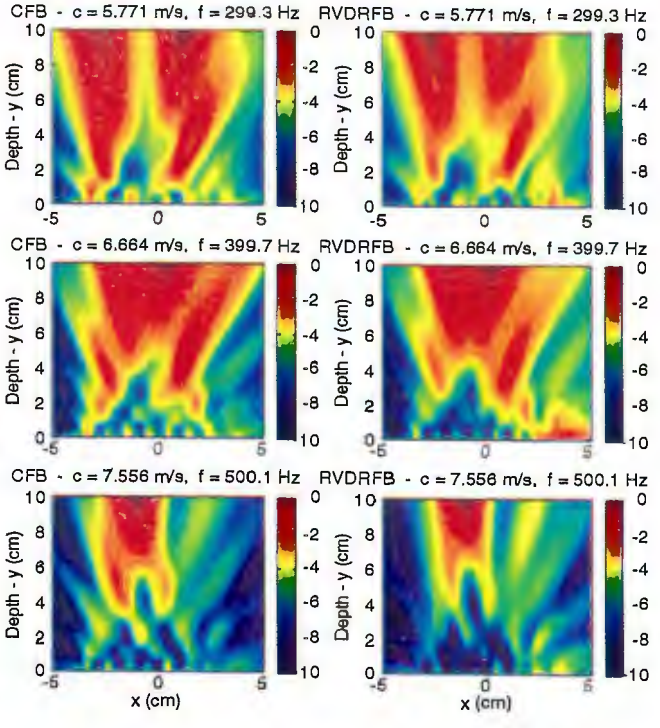

Figure B-110. Image of Data Set 919: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 919_32_512.csd
Runname: 919_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.838
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 5.555
RVDR Surface Normalization (dB): 5.181
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 5.757

Frequency 200 Hz
CFB Surface Normalization (dB): 3.951
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 10
RVDR Surface Normalization (dB): 3.31
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.063
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.528
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

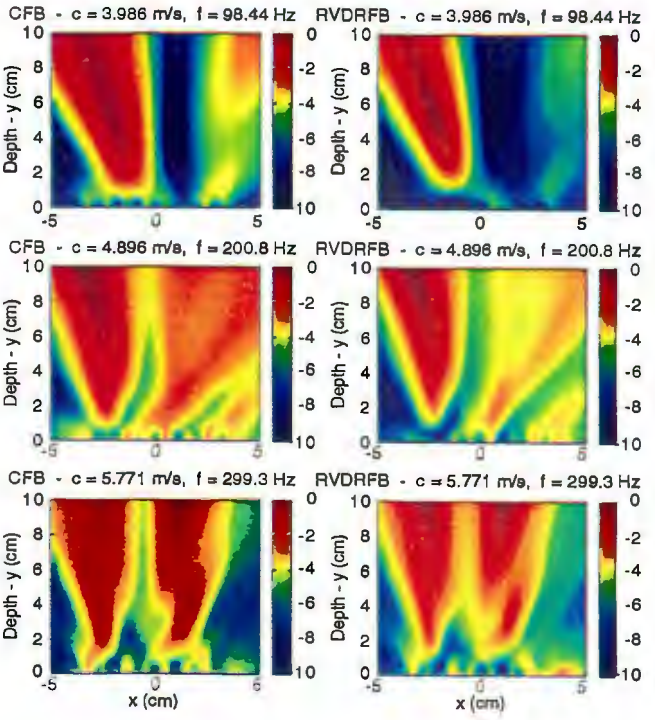

Figure B-111. Image of 919: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 919_32_512.csd
Runname: 919_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.063
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.528
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.13
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.969
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 5.094
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.713
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

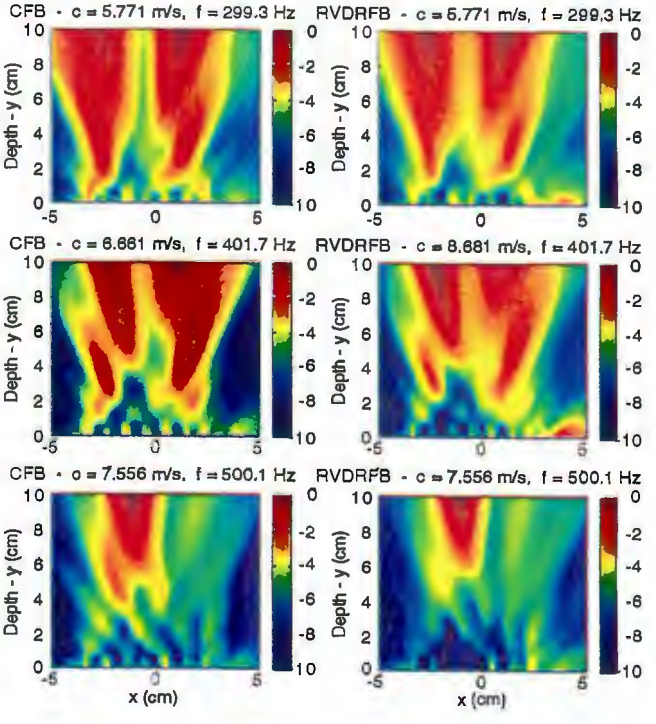

Figure B-112. Image of Data Set 919: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 919_64_256.csd
Runname: 919_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.951
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 5.353
RVDR Surface Normalization (dB): 5.963
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 5.353

Frequency 200 Hz
CFB Surface Normalization (dB): 4.17
CFB Surface Maximum Location
X (cm): -2.959 Y (cm): 10
RVDR Surface Normalization (dB): 3.658
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.131
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.923
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

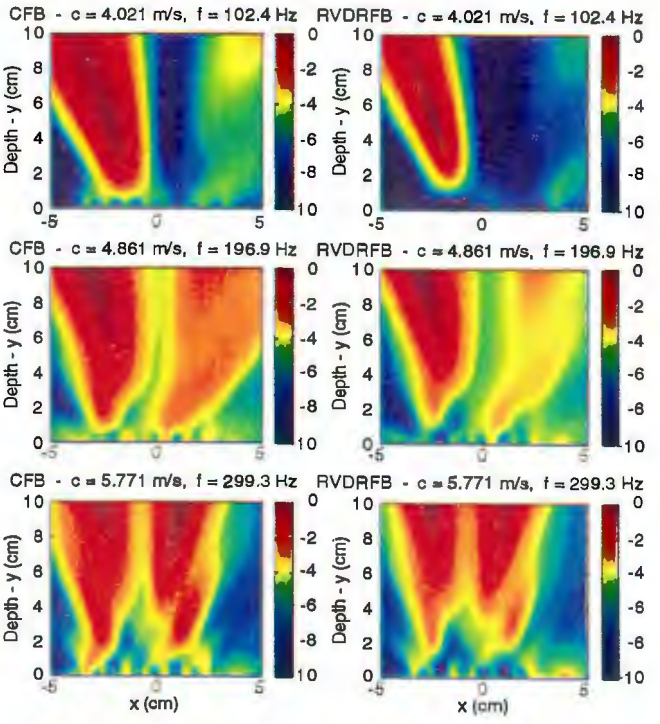

Figure B-113. Image of Data Set 919: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 919_64_256.csd
Runname: 919_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.131
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.923
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.129
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.377
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.861
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.585
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

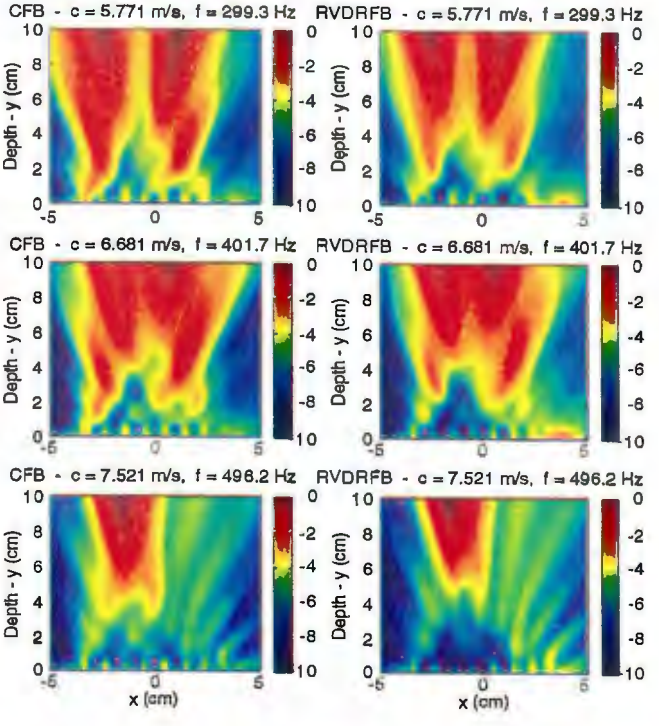

Figure B-114. Image of Data Set 919: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 920_16_1024.csd
Runname: 920_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.938
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 5.757
RVDR Surface Normalization (dB): 6.313
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 5.555

Frequency 200 Hz
CFB Surface Normalization (dB): 4.116
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.688
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.198
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 9.192
RVDR Surface Normalization (dB): 2.072
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

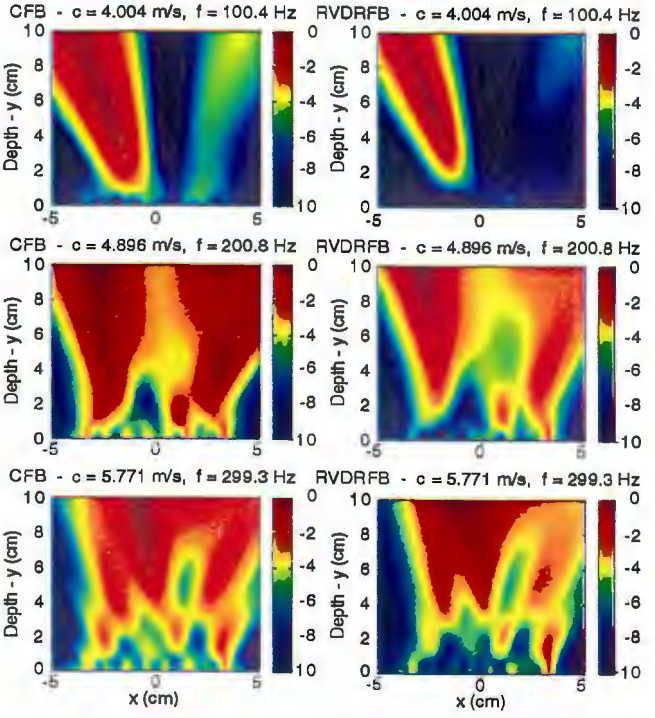

Figure B-115. Image of Data Set 920: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 920_16_1024.csd
Runname: 920_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.198
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 9.192
RVDR Surface Normalization (dB): 2.072
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.294
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 3.253
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.005
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.412
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

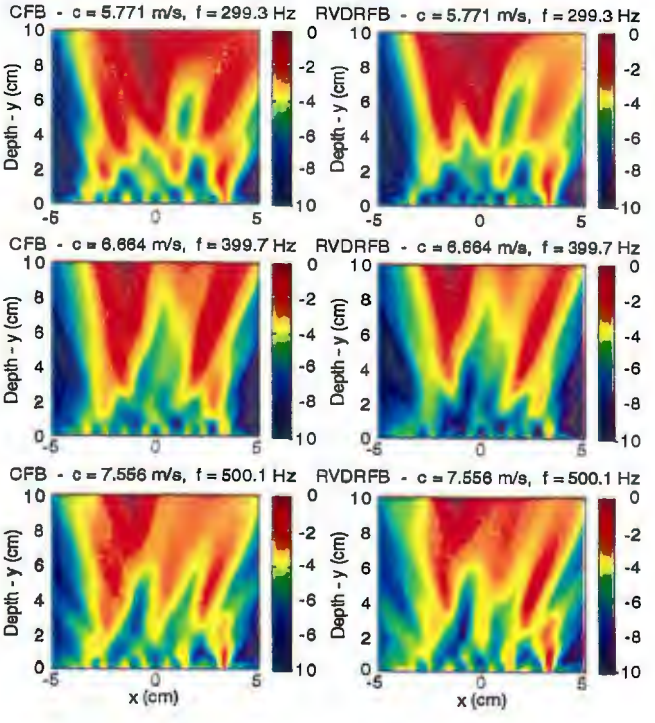

Figure B-116. Image of Data Set 920: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 920_32_512.csd
Runname: 920_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.885
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 5.757
RVDR Surface Normalization (dB): 6.599
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 5.555

Frequency 200 Hz
CFB Surface Normalization (dB): 5.258
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.815
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.596
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 9.192
RVDR Surface Normalization (dB): 2.117
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

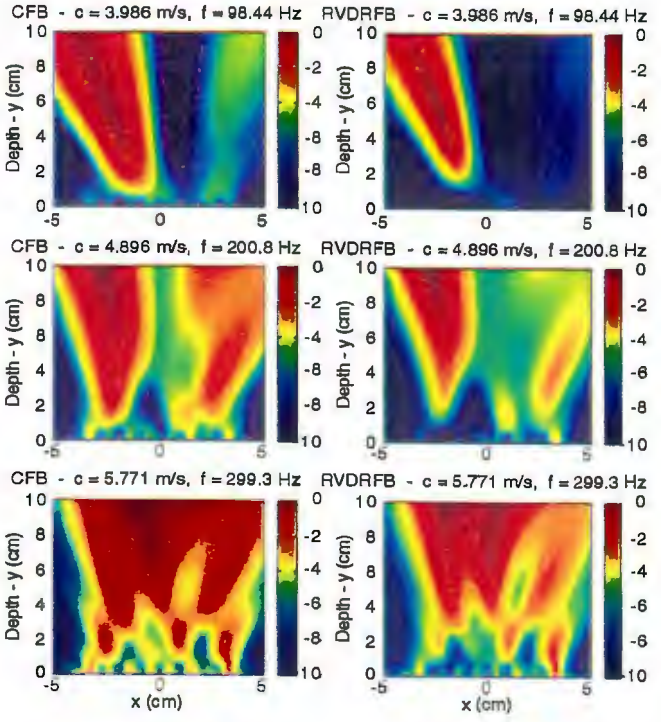

Figure B-117. Image of Data Set 920: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 920_32_512.csd
Runname: 920_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.596
CFB Surface Maximum Location
X (cm): -0.7143 Y (cm): 9.192
RVDR Surface Normalization (dB): 2.117
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.745
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 10
RVDR Surface Normalization (dB): 3.295
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.051
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.512
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

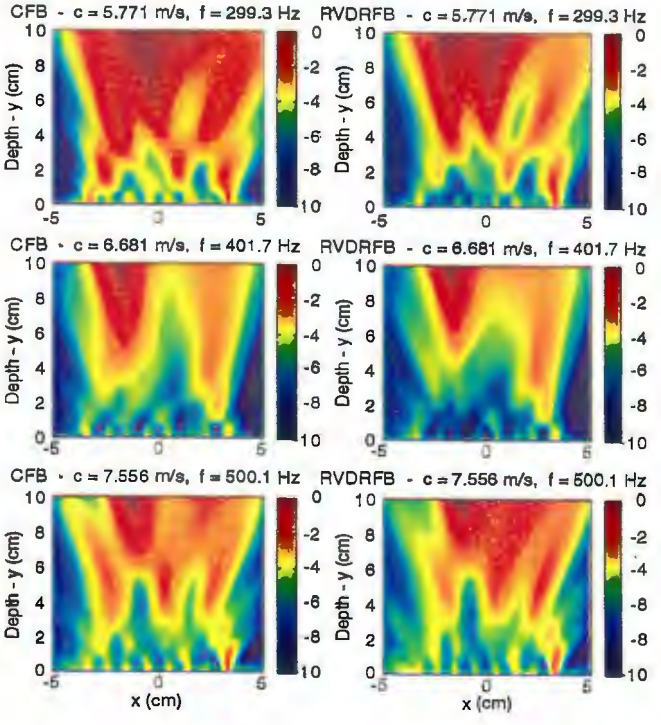

Figure B-118. Image of Data Set 920: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 920_64_256.csd
Runname: 920_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.385
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 5.757
RVDR Surface Normalization (dB): 6.168
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 5.555

Frequency 200 Hz
CFB Surface Normalization (dB): 4.48
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.009
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.972
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.808
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

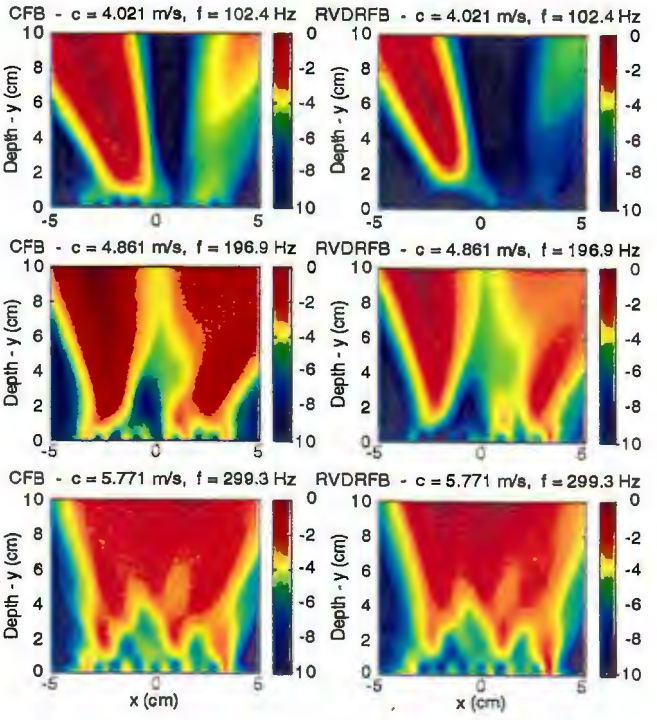

Figure B-119. Image of Data Set 920: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 920_64_256.csd
Runname: 920_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.972
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 1.808
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.324
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 3.17
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.236
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 3.013
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

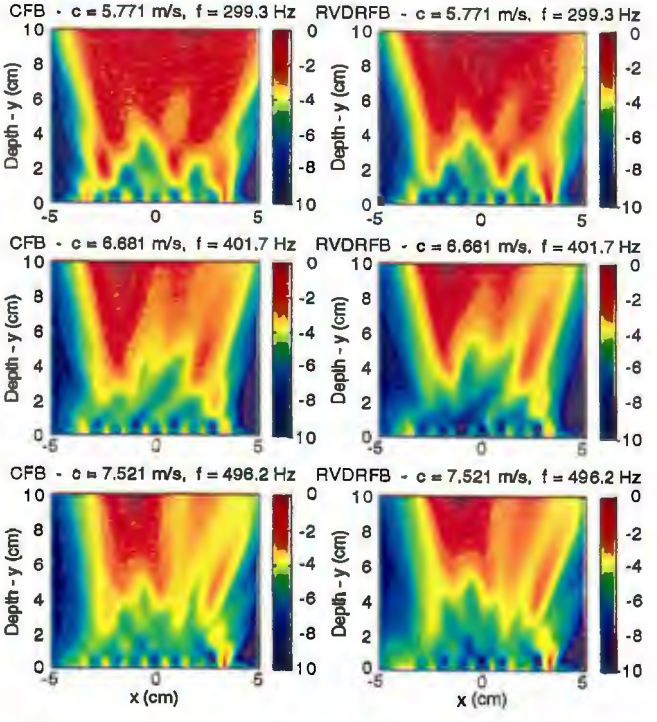

Figure B-120. Image of Data Set 920: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 921_16_1024.csd
Runname: 921_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.716
CFB Surface Maximum Location
X (cm): -3.367 Y (cm): 7.778
RVDR Surface Normalization (dB): 7.259
RVDR Surface Maximum Location
X (cm): -3.367 Y (cm): 7.576

Frequency 200 Hz
CFB Surface Normalization (dB): 4.813
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 9.394
RVDR Surface Normalization (dB): 3.6
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 6.969

Frequency 300 Hz
CFB Surface Normalization (dB): 4.845
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 4.545
RVDR Surface Normalization (dB): 2.484
RVDR Surface Maximum Location
X (cm). -2.347 Y (cm): 10

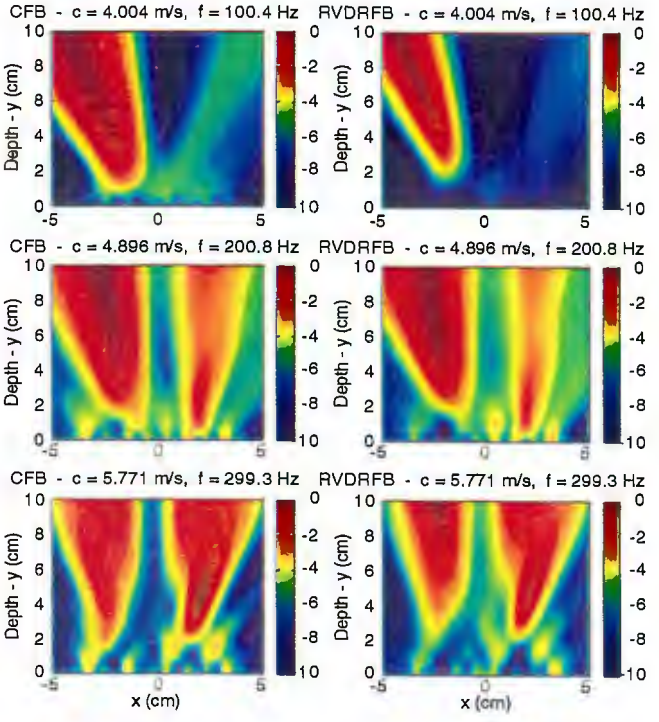

Figure B-121. Image of Data Set 921: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (bottom)

Filename: 921_16_1024.csd
Runname: 921_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.845
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 4.545
RVDR Surface Normalization (dB): 2.484
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.982
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.401
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.391
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 1.693
RVDR Surface Maximum Location
X (cm): 2.551 Y (cm): 7.171

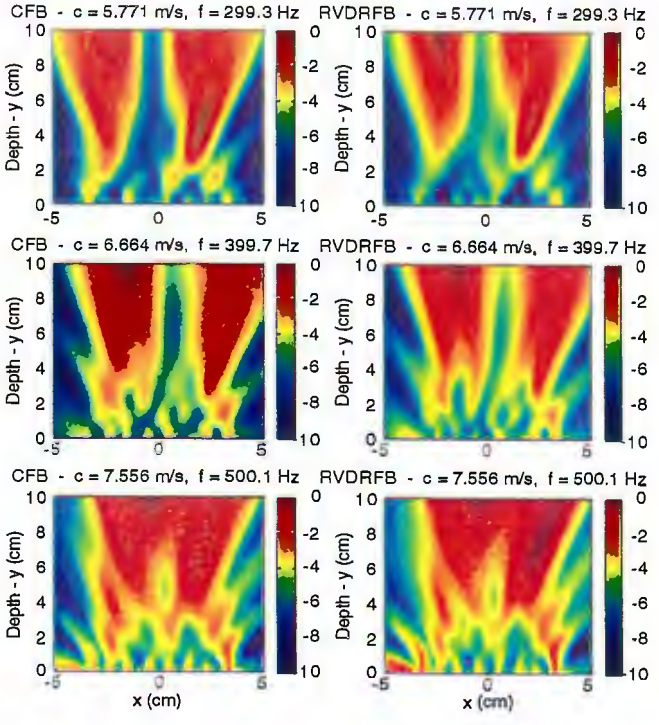

Figure B-122. Image of Data Set 921: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 921_32_512.csd
Runname: 921_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.411
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 5.959
RVDR Surface Normalization (dB): 5.834
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 6.161

Frequency 200 Hz
CFB Surface Normalization (dB): 4.977
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 8.768
RVDR Surface Normalization (dB): 4.168
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 8.586

Frequency 300 Hz
CFB Surface Normalization (dB): 4.611
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.661
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

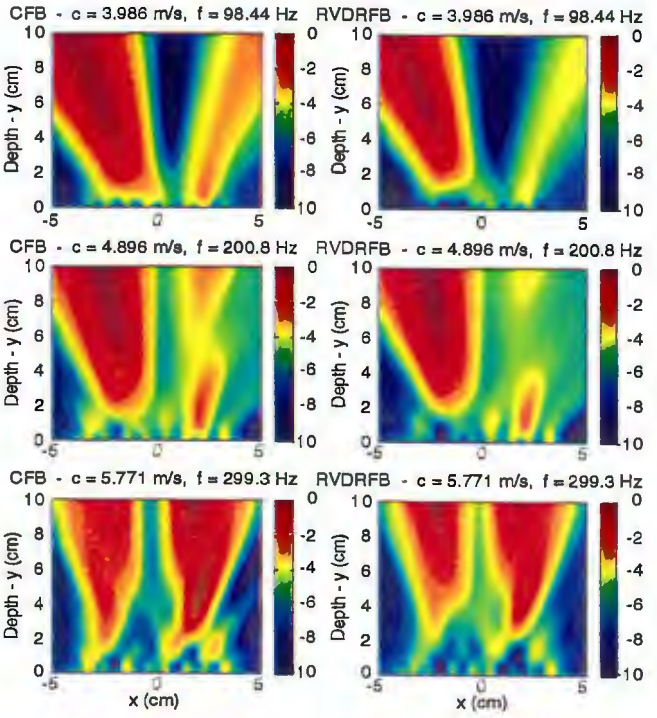

Figure B-123. Image of Data Set 921: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 921_32_512.csd
Runname: 921_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.611
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.661
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.639
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.927
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.674
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.347
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

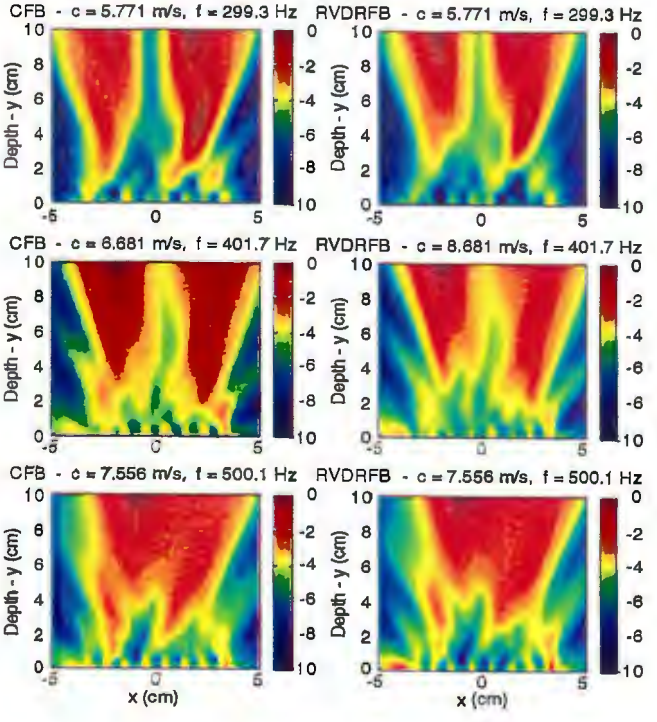

Figure B-124. Image of Data Set 921: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 921_64_256.csd
Runname: 921_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.769
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 6.565
RVDR Surface Normalization (dB): 6.237
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 6.363

Frequency 200 Hz
CFB Surface Normalization (dB): 5.116
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 9.596
RVDR Surface Normalization (dB): 4.605
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 9.192

Frequency 300 Hz
CFB Surface Normalization (dB): 4.646
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.427
RVDR Surface Maximum Location
X (cm). 1.735 Y (cm): 10

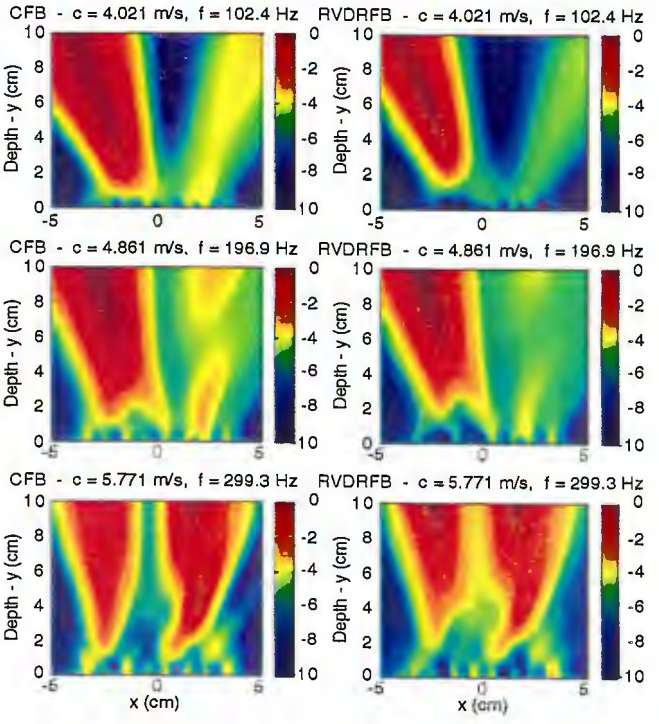

Figure B-125. Image of Data Set 921: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 921_64_256.csd
Runname: 921_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.646
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.427
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.506
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.784
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.216
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.381
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

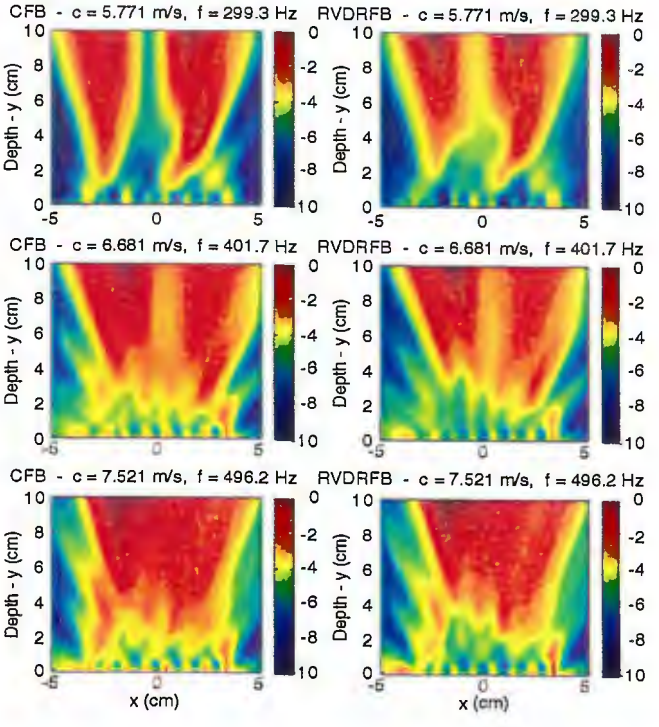

Figure B-126. Image of Data Set 921: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_16_1024.csd
Runname: 922_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.098
CFB Surface Maximum Location
X (cm): -3.163 Y (cm): 6.969
RVDR Surface Normalization (dB): 5.34
RVDR Surface Maximum Location
X (cm): -3.571 Y (cm): 7.576

Frequency 200 Hz
CFB Surface Normalization (dB): 4.533
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 3.879
RVDR Surface Maximum Location
X (cm): -2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.184
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 3.939
RVDR Surface Normalization (dB): 1.672
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 3.535

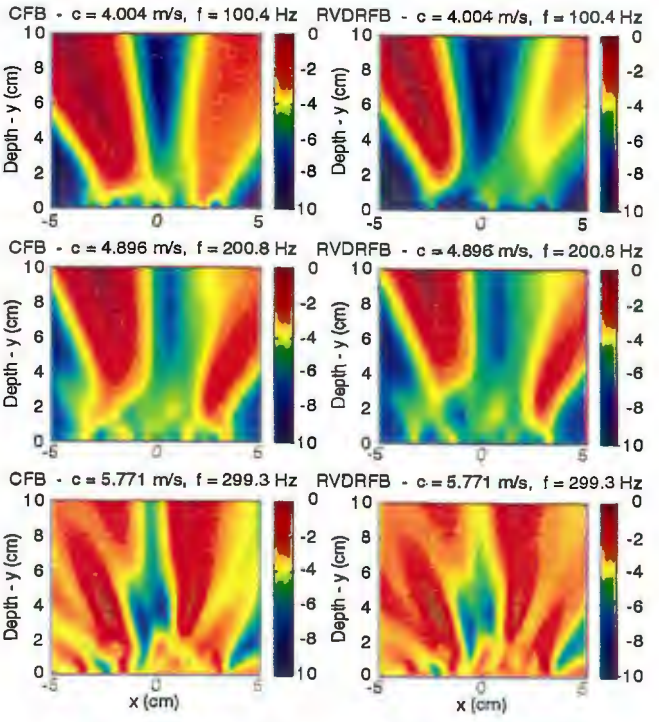

Figure B-127. Image of Data Set 922: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_16_1024.csd
Runname: 922_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.184
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 3.939
RVDR Surface Normalization (dB): 1.672
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 3.535

Frequency 400 Hz
CFB Surface Normalization (dB): 3.138
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 5.757
RVDR Surface Normalization (dB): 2.51
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 6.161

Frequency 500 Hz
CFB Surface Normalization (dB): 3.251
CFB Surface Maximum Location
X (cm): 0.5102 Y (cm): 10
RVDR Surface Normalization (dB): 2.145
RVDR Surface Maximum Location
X (cm): 0.5102 Y (cm): 10

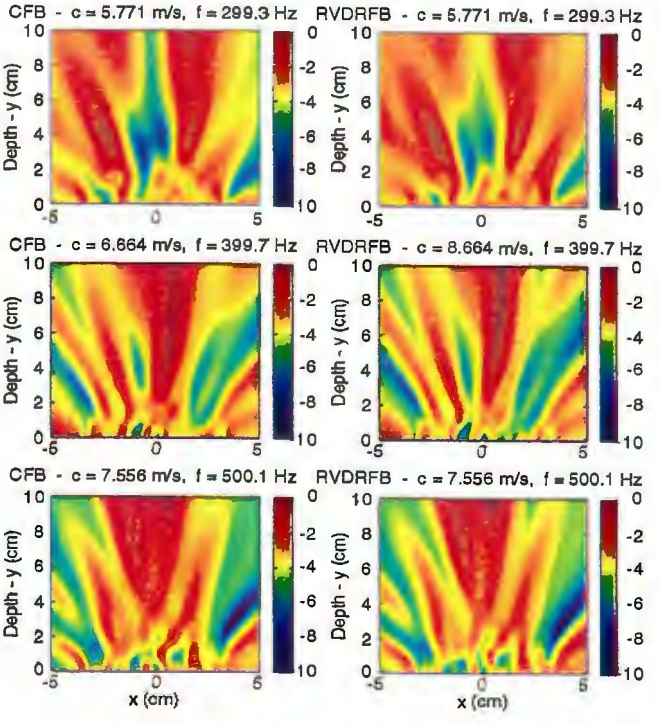

Figure B-128. Image of Data Set 922: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_32_512.csd
Runname: 922_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.752
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 5.353
RVDR Surface Normalization (dB): 4.337
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 6.161

Frequency 200 Hz
CFB Surface Normalization (dB): 4.511
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 4.009
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.36
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.9869
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

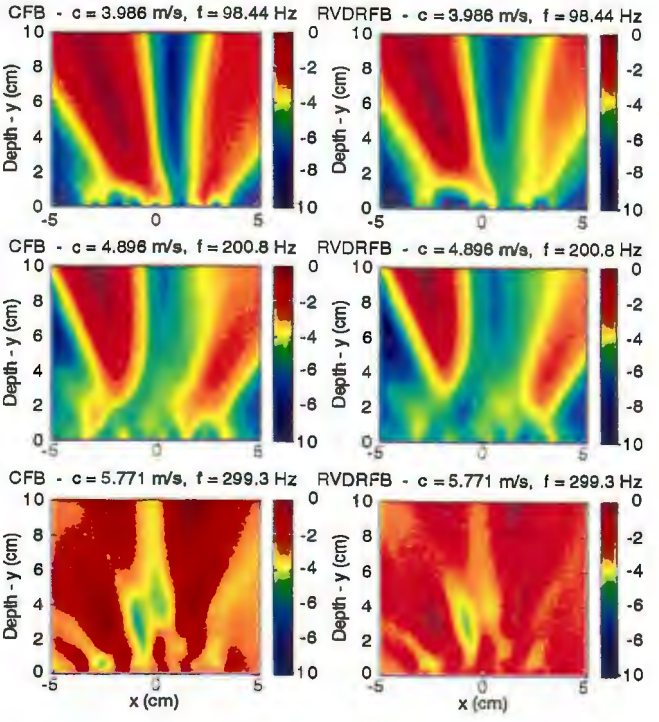

Figure B-129. Image of Data Set 922: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 922_32_512.csd
Runname: 922_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.36
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 0.9869
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 2.579
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.018
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.21
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.77
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

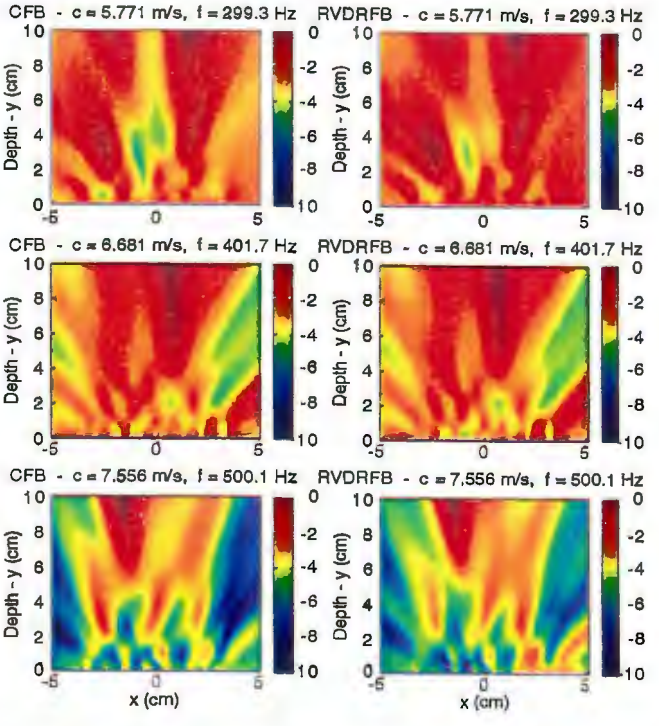

Figure B-130. Image of Data Set 922: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 922_64_256.csd
Runname: 922_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.557
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 6.767
RVDR Surface Normalization (dB): 4.705
RVDR Surface Maximum Location
X (cm): -3.163 Y (cm): 7.576

Frequency 200 Hz
CFB Surface Normalization (dB): 2.939
CFB Surface Maximum Location
X (cm): -2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.132
RVDR Surface Maximum Location
X (cm): -2.959 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 2.452
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 2.727
RVDR Surface Normalization (dB): 1.214
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 2.524

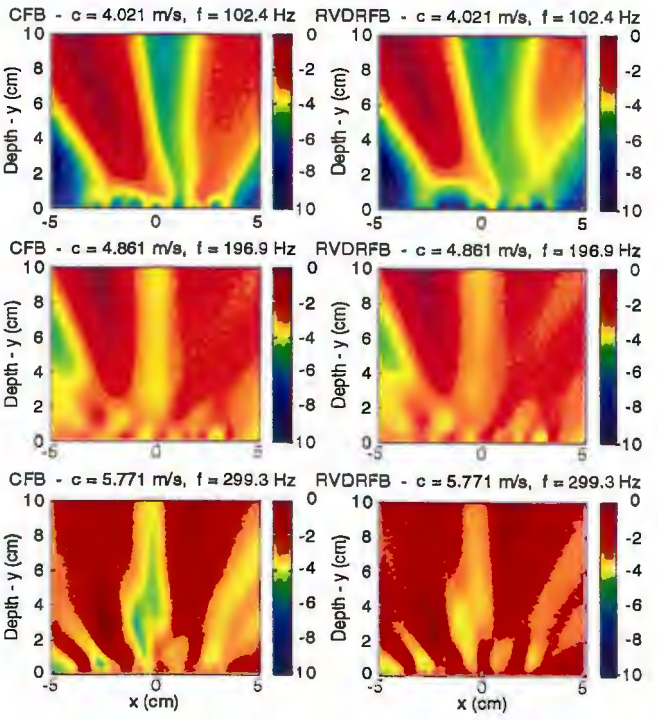

Figure B-131. Image of Data Set 922: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 922_64_256.csd
Runname: 922_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.878
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 2.452
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 2.727
RVDR Surface Normalization (dB): 1.214
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 2.524

Frequency 400 Hz
CFB Surface Normalization (dB): 2.216
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 1.603
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.22
CFB Surface Maximum Location
X (cm): -0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 1.816
RVDR Surface Maximum Location
X (cm): -0.9184 Y (cm): 10

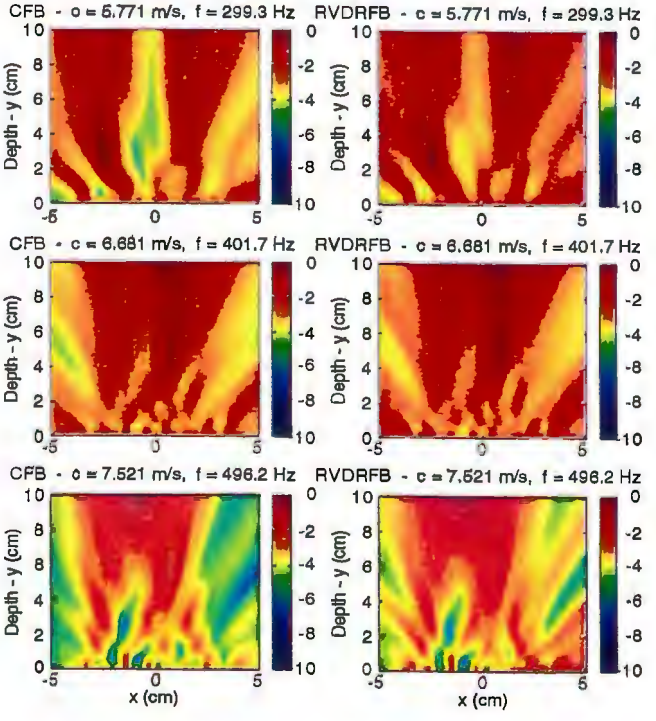

Figure B-132. Image of Data Set 922: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 923_16_1024.csd
Runname: 923_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 7.304
CFB Surface Maximum Location
X (cm): 3.98 Y (cm): 8.99
RVDR Surface Normalization (dB): 6.193
RVDR Surface Maximum Location
X (cm): 4.184 Y (cm): 9.394

Frequency 200 Hz
CFB Surface Normalization (dB): 3.93
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 10
RVDR Surface Normalization (dB): 2.65
RVDR Surface Maximum Location
X (cm): 4.796 Y (cm): 9.798

Frequency 300 Hz
CFB Surface Normalization (dB): 3.768
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.755
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

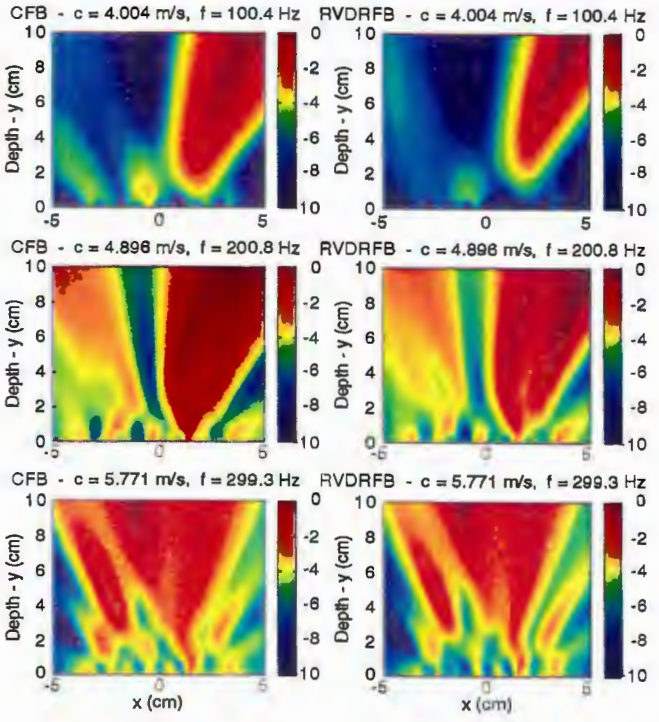

Figure B-133. Image of Data Set 923: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 923_16_1024.csd
Runname: 923_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.768
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.755
RVDR Surface Maximum Location
X (cm): -1.122 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.86
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.767
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.132
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.037
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

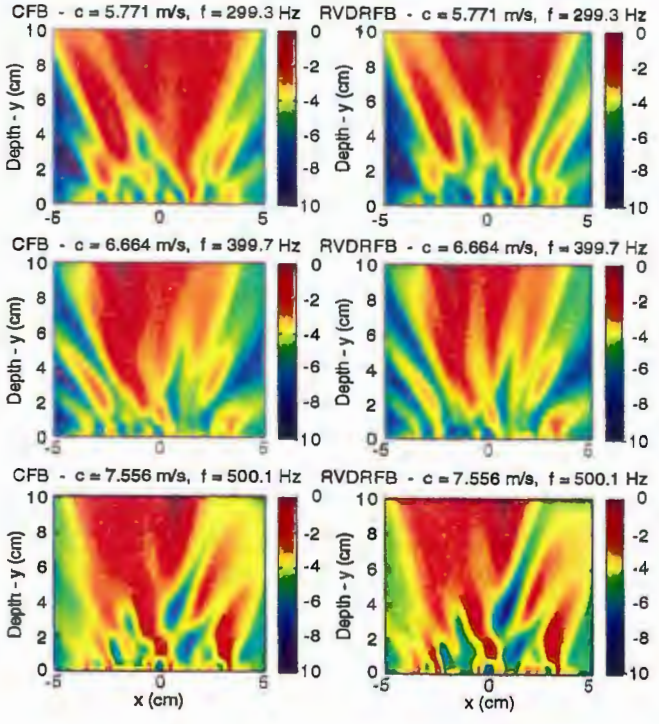

Figure B-134. Image of Data Set 923: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 923_32_512.csd
Runname: 923_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.888
CFB Surface Maximum Location
X (cm): 4.164 Y (cm): 9.798
RVDR Surface Normalization (dB): 6.036
RVDR Surface Maximum Location
X (cm): 4.184 Y (cm): 9.798

Frequency 200 Hz
CFB Surface Normalization (dB): 3.465
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 10
RVDR Surface Normalization (dB): 2.415
RVDR Surface Maximum Location
X (cm): 4.388 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.387
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.827
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

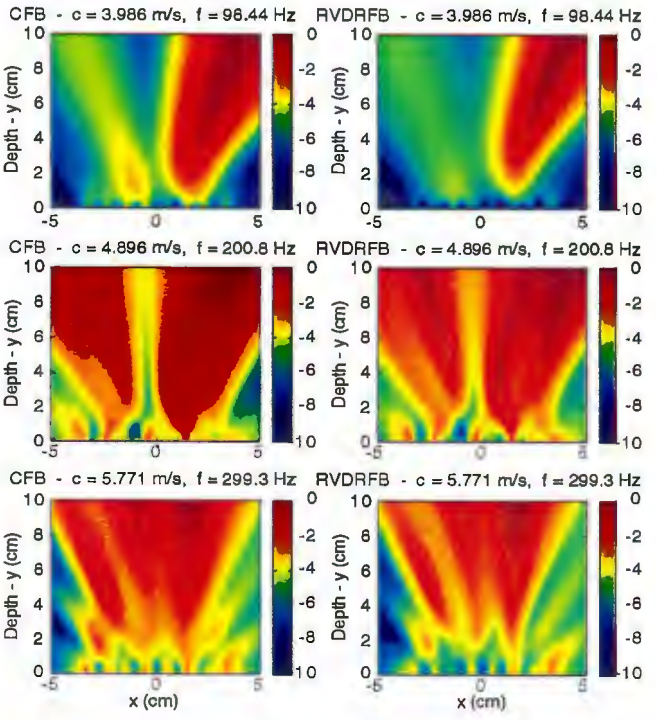

Figure B-135. Image of Data Set 923: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 923_32_512.csd
Runname: 923_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.387
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.827
RVDR Surface Maximum Location
X (cm): 1.735 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.452
CFB Surface Maximum Location
X (cm): 0.7143 Y (cm): 10
RVDR Surface Normalization (dB): 2.286
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 8.586

Frequency 500 Hz
CFB Surface Normalization (dB): 2.754
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.014
RVDR Surface Maximum Location
X (cm): 1.122 Y (cm): 10

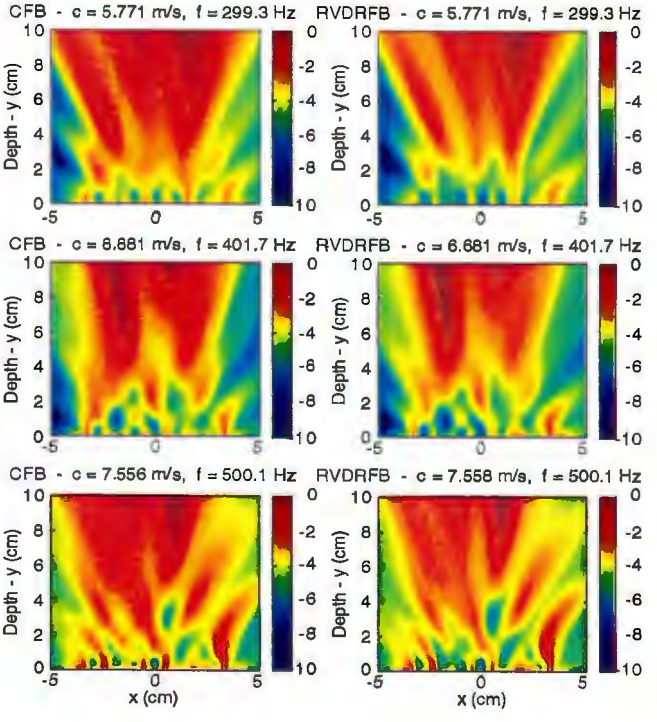

Figure B-136. Image of Data Set 923: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 923_64_256.csd
Runname: 923_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.507
CFB Surface Maximum Location
X (cm): 2.755 Y (cm): 6.161
RVDR Surface Normalization (dB): 5.856
RVDR Surface Maximum Location
X (cm): 2.755 Y (cm): 6.161

Frequency 200 Hz
CFB Surface Normalization (dB): 3.394
CFB Surface Maximum Location
X (cm): 3.367 Y (cm): 10
RVDR Surface Normalization (dB): 2.759
RVDR Surface Maximum Location
X (cm): 3.571 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 3.679
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.99
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

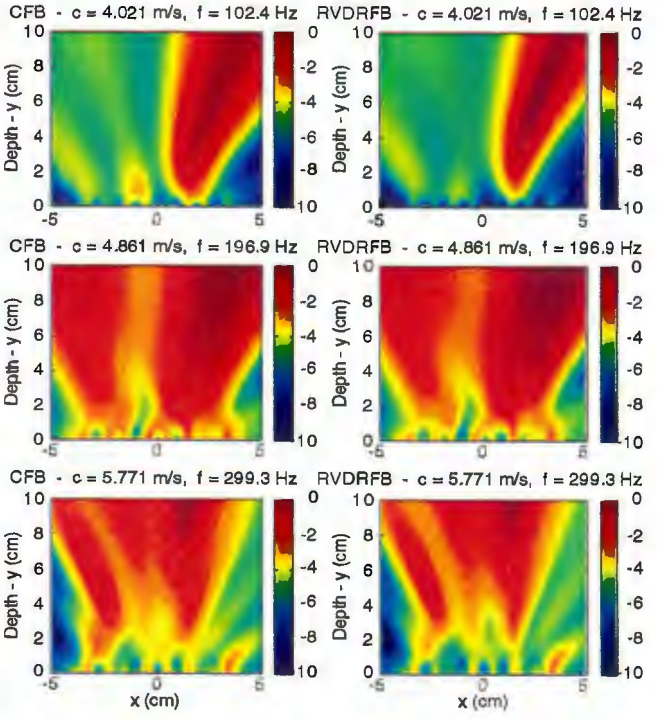

Figure B-137. Image of Data Set 923: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 923_64_256.csd
Runname: 923_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 3.679
CFB Surface Maximum Location
X (cm): 1.531 Y (cm): 10
RVDR Surface Normalization (dB): 2.99
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.763
CFB Surface Maximum Location
X (cm): 0.9184 Y (cm): 10
RVDR Surface Normalization (dB): 2.405
RVDR Surface Maximum Location
X (cm): 0.7143 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.197
CFB Surface Maximum Location
X (cm): 1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.384
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

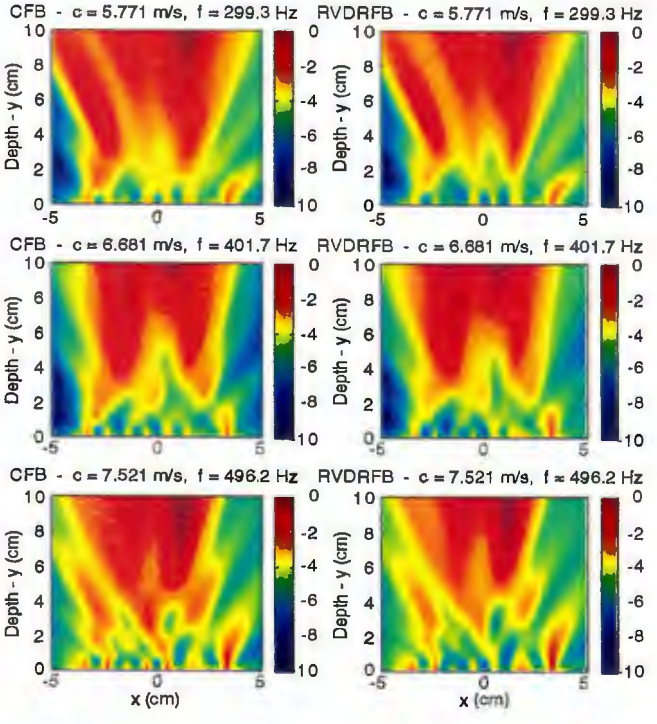

Figure B-138. Image of Data Set 923: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 924_16_1024.csd
Runname: 924_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.264
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.461
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.675
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.116
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.302
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 6.565
RVDR Surface Normalization (dB): 2.727
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 7.576

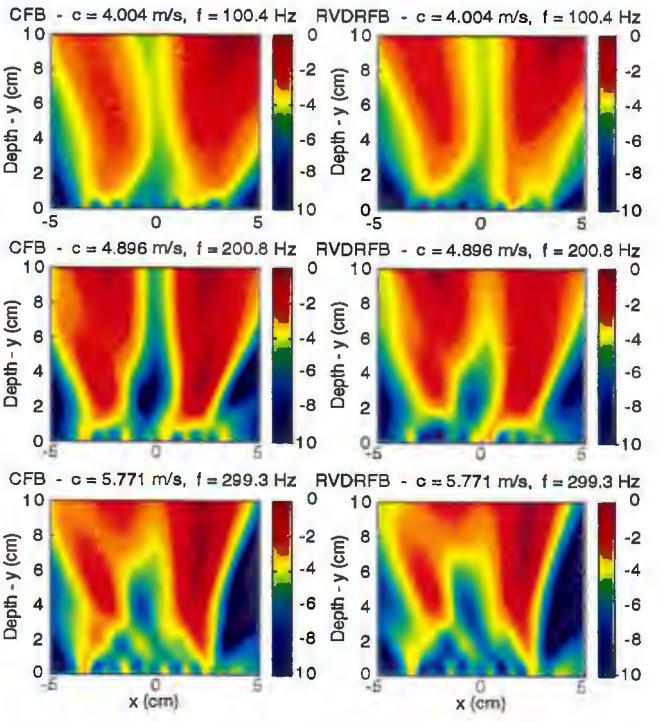

Figure B-139. Image of Data Set 924: 16 FFTs, 9 channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 924_16_1024.csd
Runname: 924_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.302
CFB Surface Maximum Location
X (cm): 2.143 Y (cm): 6.565
RVDR Surface Normalization (dB): 2.727
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 7.576

Frequency 400 Hz
CFB Surface Normalization (dB): 3.964
CFB Surface Maximum Location
X (cm): -1.939 Y (cm): 5.151
RVDR Surface Normalization (dB): 2.476
RVDR Surface Maximum Location
X (cm): -1.939 Y (cm): 5.151

Frequency 500 Hz
CFB Surface Normalization (dB): 4.569
CFB Surface Maximum Location
X (cm): -1.122 Y (cm): 10
RVDR Surface Normalization (dB): 2.729
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

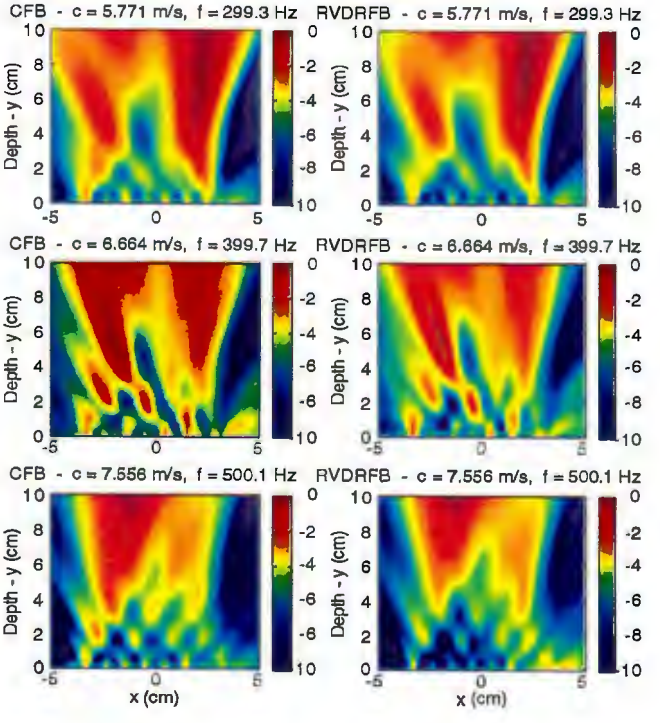

Figure B-140. Image of Data Set 924: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 924_32_512.csd
Runname: 924_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.234
CFB Surface Maximum Location
X (cm): 3.571 Y (cm): 10
RVDR Surface Normalization (dB): 3.547
RVDR Surface Maximum Location
X (cm): 3.571 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.929
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.745
RVDR Surface Maximum Location
X (cm): 2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.465
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.657
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

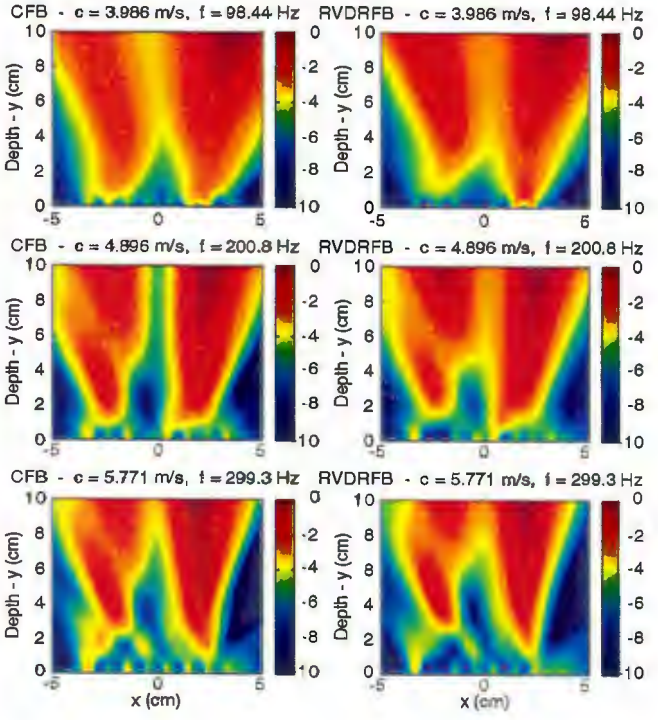

Figure B-141. Image of Data Set 924: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 924_32_512.csd
Runname: 924_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.465
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.657
RVDR Surface Maximum Location
X (cm): 1.939 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.994
CFB Surface Maximum Location
X (cm): -2.347 Y (cm): 5.959
RVDR Surface Normalization (dB): 2.595
RVDR Surface Maximum Location
X (cm): -2.347 Y (cm): 6.161

Frequency 500 Hz
CFB Surface Normalization (dB): 4.45
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 3.012
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

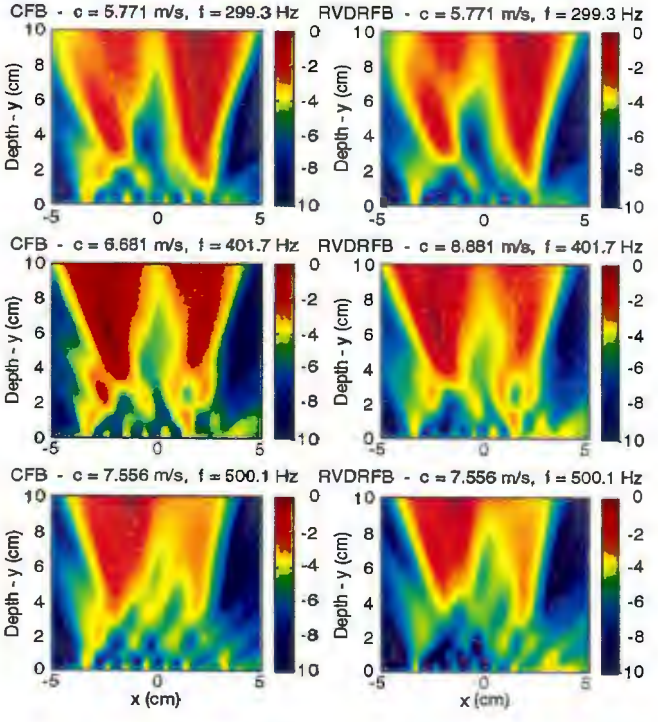

Figure B-142. Image of Data Set 924: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 400 Hz (Bottom)

Filename: 924_64_256.csd
Runname: 924_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.059
CFB Surface Maximum Location
X (cm): 3.776 Y (cm): 10
RVDR Surface Normalization (dB): 3.481
RVDR Surface Maximum Location
X (cm): 3.776 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.517
CFB Surface Maximum Location
X (cm): 2.551 Y (cm): 10
RVDR Surface Normalization (dB): 2.566
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.376
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.559
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

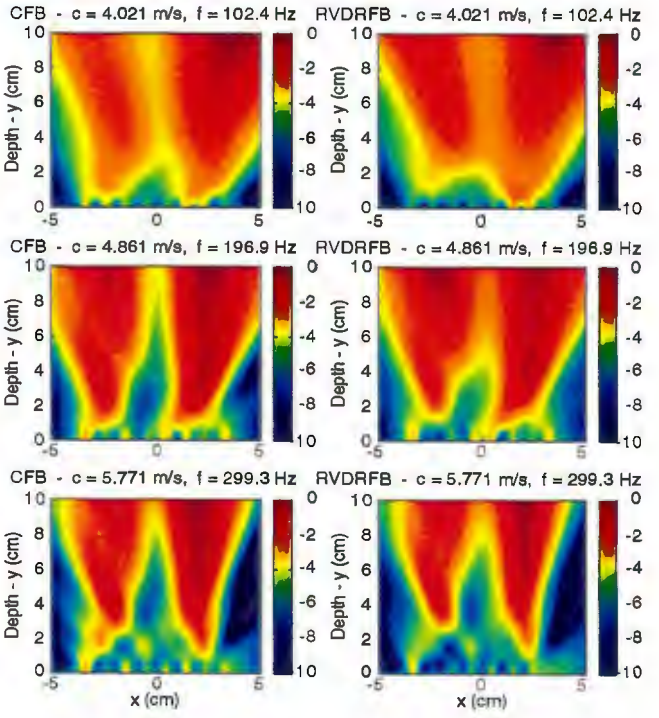

Figure B-143. Image of Data Set 924: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 924_64_256.csd
Runname: 924_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.376
CFB Surface Maximum Location
X (cm): 1.939 Y (cm): 10
RVDR Surface Normalization (dB): 2.559
RVDR Surface Maximum Location
X (cm): 2.143 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 3.58
CFB Surface Maximum Location
X (cm): -2.143 Y (cm): 5.757
RVDR Surface Normalization (dB): 2.189
RVDR Surface Maximum Location
X (cm): -2.143 Y (cm): 5.757

Frequency 500 Hz
CFB Surface Normalization (dB): 3.7
CFB Surface Maximum Location
X (cm): -1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.192
RVDR Surface Maximum Location
X (cm): -1.735 Y (cm): 10

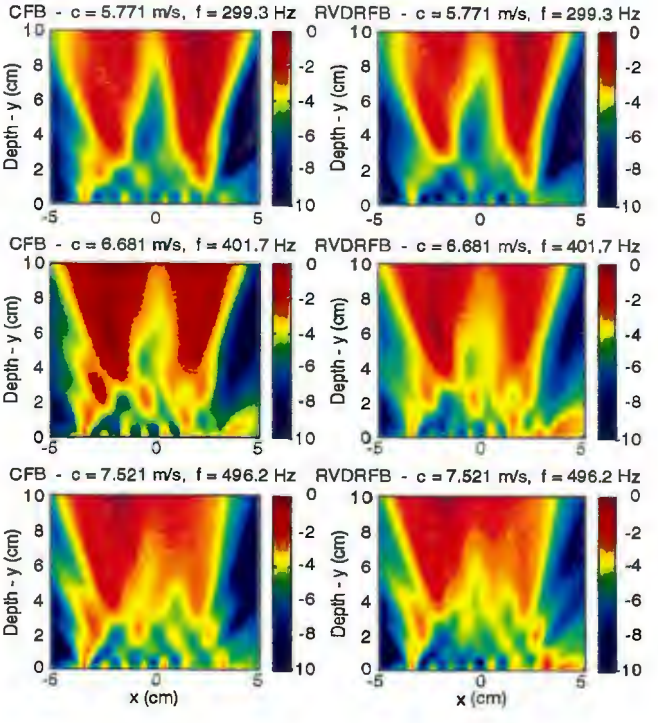

Figure B-144. Image of Data Set 924: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 925_16_1024.csd
Runname: 925_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 6.207
CFB Surface Maximum Location
X (cm): 4.592 Y (cm): 10
RVDR Surface Normalization (dB): 5.292
RVDR Surface Maximum Location
X (cm): 4.592 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.028
CFB Surface Maximum Location
X (cm): 2.755 Y (cm): 10
RVDR Surface Normalization (dB): 2.459
RVDR Surface Maximum Location
X (cm): 2.755 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.536
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 5.151
RVDR Surface Normalization (dB): 1.2
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

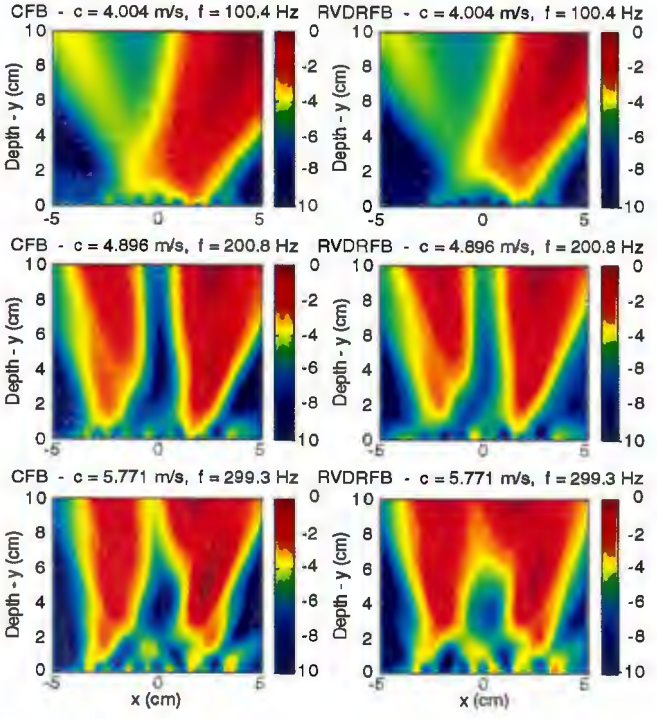

Figure B-145. Image of Data Set 925: 16 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename. 925_16_1024.csd
Runname: 925_16_1024
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 16
Number of Points per FFT: 1024
Frequency Bin Resolution (Hz): 1.969
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.536
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 5.151
RVDR Surface Normalization (dB): 1.2
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.473
CFB Surface Maximum Location
X (cm): -1.531 Y (cm): 10
RVDR Surface Normalization (dB): 1.876
RVDR Surface Maximum Location
X (cm): -1.531 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.219
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.536
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

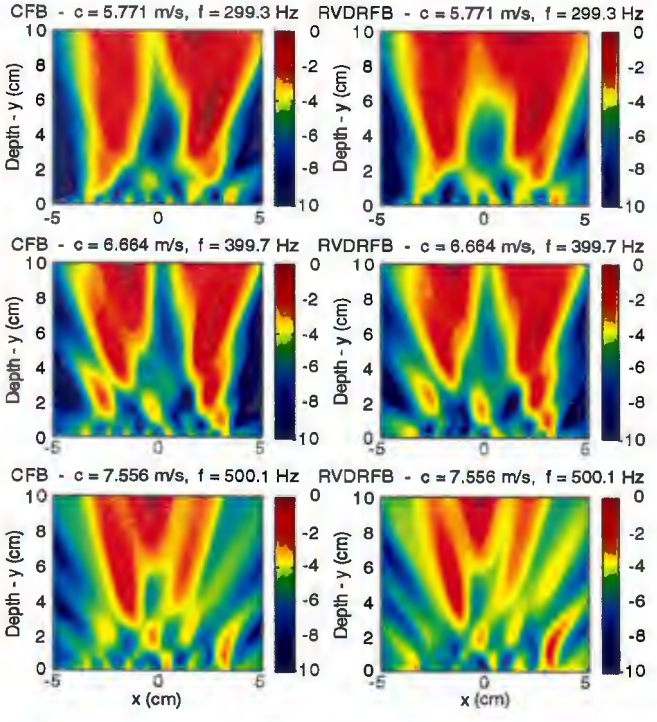

Figure B-146. Image of Data Set 925: 16 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 925_32_512.csd
Runname: 925_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 8

Frequency 100 Hz
CFB Surface Normalization (dB): 4.957
CFB Surface Maximum Location
X (cm): 4.184 Y (cm): 10
RVDR Surface Normalization (dB): 4.213
RVDR Surface Maximum Location
X (cm): 4.184 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 5.3
CFB Surface Maximum Location
X (cm): -2.551 Y (cm): 10
RVDR Surface Normalization (dB): 3.447
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.357
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.359
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

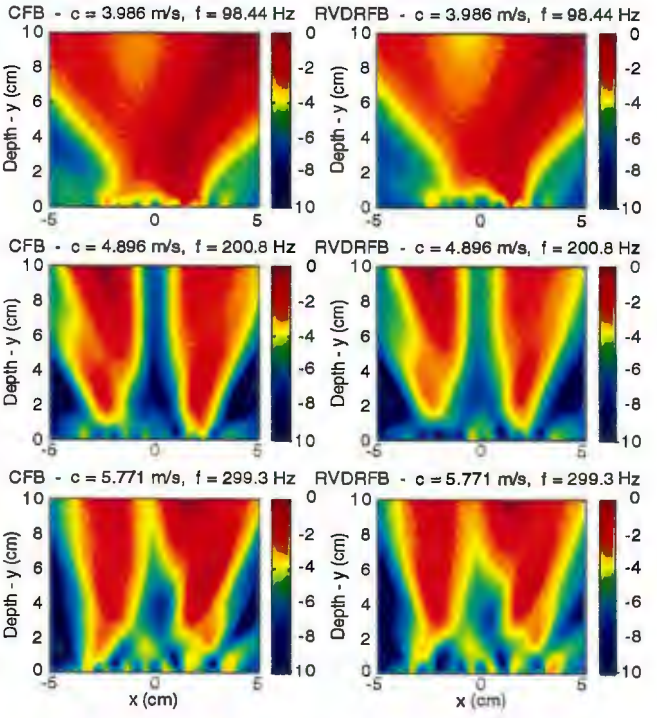

Figure B-147. Image of Data Set 925: 32 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 925_32_512.csd
Runname: 925_32_512
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 32
Number of Points per FFT: 512
Frequency Bin Resolution (Hz): 3.938
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.357
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 1.86
RVDR Surface Maximum Location
X (cm): 1.531 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.553
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.064
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 4.305
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.627
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

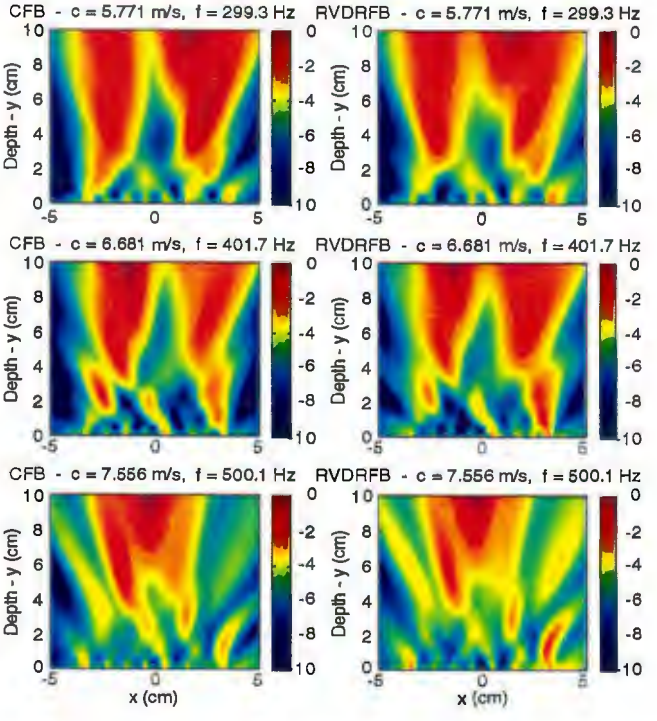

Figure B-148. Image of Data Set 925: 32 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)

Filename: 925_64_256.csd
Runname: 925_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 100 Hz
CFB Surface Normalization (dB): 5.176
CFB Surface Maximum Location
X (cm): 4.388 Y (cm): 10
RVDR Surface Normalization (dB): 4.495
RVDR Surface Maximum Location
X (cm): 4.388 Y (cm): 10

Frequency 200 Hz
CFB Surface Normalization (dB): 4.752
CFB Surface Maximum Location
X (cm): 2.347 Y (cm): 10
RVDR Surface Normalization (dB): 2.873
RVDR Surface Maximum Location
X (cm): -2.551 Y (cm): 10

Frequency 300 Hz
CFB Surface Normalization (dB): 4.302
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.134
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

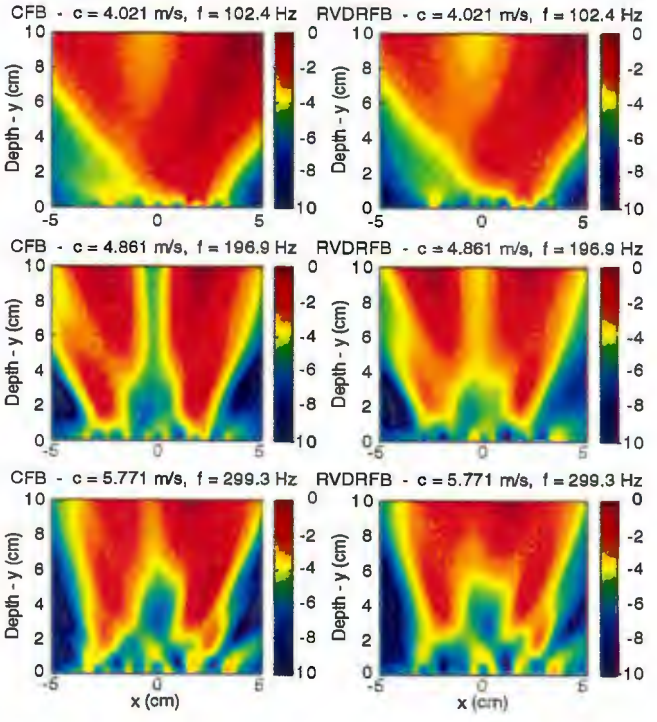

Figure B-149. Image of Data Set 925: 64 FFTs, 9 Channels Used at 100 Hz (Top), 200 Hz (Middle), and 300 Hz (Bottom)

Filename: 925_64_256.csd
Runname: 925_64_256
Diastolic Phase
Spreading Parameter = 1
9 Channels Processed
Z Value of Cut (cm): 0
Wave Speed Interpolation
4 m/s at 100 Hz
12 m/s at 1000 Hz
Number of Temporal FFTs: 64
Number of Points per FFT: 256
Frequency Bin Resolution (Hz): 7.876
RVDR Enhancement (linear): 6

Frequency 300 Hz
CFB Surface Normalization (dB): 4.302
CFB Surface Maximum Location
X (cm): 1.735 Y (cm): 10
RVDR Surface Normalization (dB): 2.134
RVDR Surface Maximum Location
X (cm): 1.327 Y (cm): 10

Frequency 400 Hz
CFB Surface Normalization (dB): 4.443
CFB Surface Maximum Location
X (cm): -1.327 Y (cm): 10
RVDR Surface Normalization (dB): 2.245
RVDR Surface Maximum Location
X (cm): -1.327 Y (cm): 10

Frequency 500 Hz
CFB Surface Normalization (dB): 3.893
CFB Surface Maximum Location
X (cm): -0.3061 Y (cm): 10
RVDR Surface Normalization (dB): 2.315
RVDR Surface Maximum Location
X (cm): -0.3061 Y (cm): 10

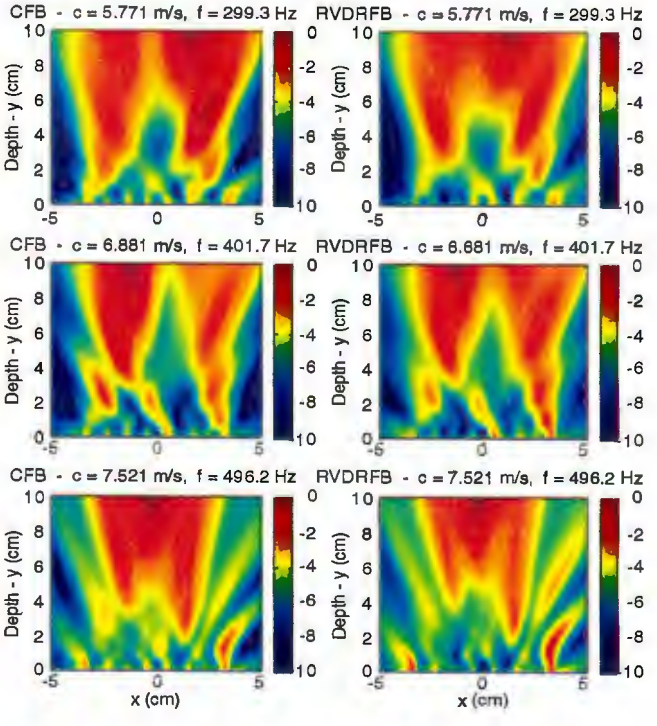

Figure B-150. Image of Data Set 925: 64 FFTs, 9 Channels Used at 300 Hz (Top), 400 Hz (Middle), and 500 Hz (Bottom)